

TOSHIBA
Leading Innovation >>>

Owner's Manual

Integrated High Definition LCD Television

COLOR STREAM[®] HD   dlna[™]
CERTIFIED[™]

 DOLBY[®] DIGITAL PLUS |  HDMI[®] HIGH-DEFINITION MULTIMEDIA INTERFACE |  iDTV[™] INTEGRATED DIGITAL TELEVISION

40UL605U
46UL605U
55UL605U

For an overview of steps for setting up your new TV, see page 12.

Note: To display a High Definition picture, the TV must be receiving a High Definition signal (such as an over-the-air High Definition TV broadcast, a High Definition digital cable program, or a High Definition digital satellite program). For details, please contact your TV antenna installer, cable provider, or satellite provider.

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Owner's Record

The model number and serial number are on the back of your TV. Record these numbers in the spaces below. Refer to these numbers whenever you communicate with your Toshiba dealer about this TV.

Model number:

Serial number:



HDA51P4002I

Dear Customer,

Thank you for purchasing this Toshiba LCD TV. This manual will help you use the many exciting features of your new LCD TV. **Before operating your LCD TV, please read this manual completely**, and keep it nearby for future reference.

Safety Precautions

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



WARNING
RISK OF ELECTRIC
SHOCK DO NOT OPEN.



WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING

To prevent injury, this apparatus must be securely attached to the floor/wall in accordance with the installation instructions. See item 25 on page 4.

WARNING: If you decide to wall mount this television, always use a UL Listed wall bracket appropriate for the size and weight of this television. The use of any wall bracket other than a UL Listed wall bracket appropriate for the size and weight of this television for wall mounting this television could result in serious bodily injury and/or property damage. See "Removing the Pedestal Stand" (see page 6).

NOTE TO CATV INSTALLERS

This is a reminder to call the CATV system installer's attention to Article 820-40 of the U.S. NEC, which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical. For additional antenna grounding information, see items 32 and 33 on page 4.

CHILD SAFETY:

It Makes A Difference How and Where You Use Your Flat Panel Display

Congratulations on your purchase! As you enjoy your new product, please keep these safety tips in mind:

The Issue

• The home theater entertainment experience is a growing trend and larger flat panel displays are popular purchases. However, flat panel displays are not always supported on the proper stands or installed according to the manufacturer's recommendations.

- Flat panel displays that are inappropriately situated on dressers, bookcases, shelves, desks, speakers, chests or carts may fall over and cause injury.



TOSHIBA Cares!

- The consumer electronics industry is committed to making home entertainment enjoyable and safe.

Tune Into Safety

- One size does NOT fit all. Follow the manufacturer's recommendations for the safe installation and use of your flat panel display.
- Carefully read and understand all enclosed instructions for proper use of this product.
- Don't allow children to climb on or play with furniture and television sets.
- Don't place flat panel displays on furniture that can easily be used as steps, such as a chest of drawers.
- Remember that children can become excited while watching a program, especially on a "larger than life" flat panel display. Care should be taken to place or install the display where it cannot be pushed, pulled over, or knocked down.
- Care should be taken to route all cords and cables connected to the flat panel display so that they cannot be pulled or grabbed by curious children.



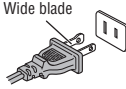


Wall Mounting: If you decide to wall mount your flat panel display, always:

- Use a mount that has been recommended by the display manufacturer and/or listed by an independent laboratory (such as UL, CSA, ETL).
- Follow all instructions supplied by the display and wall mount manufacturers.
- If you have any doubts about your ability to safely install your flat panel display, contact your retailer about professional installation.
- Make sure that the wall where you are mounting the display is appropriate. Some wall mounts are not designed to be mounted to walls with steel studs or old cinder block construction. If you are unsure, contact a professional installer.
- A minimum of two people are required for installation. Flat panel displays can be heavy.



www.CE.org/safety

Important Safety Instructions

- 1) **Read these instructions.**
 - 2) **Keep these instructions.**
 - 3) **Heed all warnings.**
 - 4) **Follow all instructions.**
-
- 5) **Do not use this apparatus near water.**
-
- 6) **Clean only with dry cloth.**
-
- 7) **Do not block any ventilation openings.** Install in accordance with the manufacturer's instructions.
-
- 8) **Do not install near any heat sources** such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
-
- 9) **Do not defeat the safety purpose of the polarized or grounding type plug.** A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
-
- 10) **Protect the power cord** from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
-
- 11) **Only use attachments/accessories specified by the manufacturer.**
-
- 12) **Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus.** When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
-
- 13) **Unplug this apparatus during lightning storms or when unused for long periods of time.**
-
- 14) **Refer all servicing to qualified service personnel.** Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Additional Safety Precautions

- 14a) **CAUTION:** If the TV is dropped and the cabinet or enclosure surface has been damaged or the TV does not operate normally, take the following precautions:
 - ALWAYS turn off the TV and unplug the power cord to avoid possible electric shock or fire.
 - NEVER allow your body to come in contact with any



broken glass or liquid from the damaged television. The LCD panel inside the TV contains glass and a toxic liquid. If the liquid comes in contact with your mouth or eyes, or your skin is cut by broken glass, rinse the affected area thoroughly with water and consult your doctor.

- ALWAYS contact a service technician to inspect the TV any time it has been damaged or dropped.

15) CAUTION:

- To reduce the risk of electric shock, do not use the polarized plug with an extension cord, receptacle, or other outlet unless the blades can be inserted completely to prevent blade exposure.
- To prevent electric shock, match wide blade of plug to wide slot; fully insert.

16) CAUTION:

Do not let children swallow the product or play with the plastic bag. Keep the product and the plastic bag out of the reach of children.

17) CAUTION:

Do not let water or other liquids come into contact with the product, as it may result in damage.

18) WARNING:


- To prevent the spread of fire, keep candles or other open flames away from this product at all times.
- Keep the product away from direct sunlight, fire or a heat source such as a heater. This may reduce the product lifetime or result in fire.

Installation, Care, and Service

Installation

Follow these recommendations and precautions and heed all warnings when installing your TV:

- 19)  **WARNING: NEVER expose batteries to excessive heat such as sunshine, fire or the like.**
- 20) ALWAYS plug the product into an outlet that is located in such a manner that it can be easily unplugged in case the product requires service.
- 21) NEVER route the product's power cord inside a wall or similar enclosed area.
- 22) Never modify this equipment. Changes or modifications may void: a) the warranty, and b) the user's authority to operate this equipment under the rules of the Federal Communications Commission.

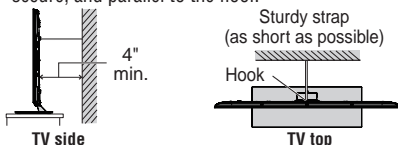
- 23)  **DANGER: RISK OF SERIOUS PERSONAL INJURY, DEATH, OR EQUIPMENT DAMAGE!**
Never place the TV on an unstable cart, stand, or table. The TV may fall, causing serious personal injury, death, or serious damage to the TV.



(continued)

- 24) To avoid damage to this product, never place or store the TV in direct sunlight; hot, humid areas; or areas subject to excessive dust or vibration.

- 25) Always place the TV on the floor or a sturdy, level, stable surface that can support the weight of the unit. To secure the TV, use a sturdy strap from the hook(s) on the rear of the TV to a wall stud, pillar, or other immovable structure. Make sure the strap is tight, secure, and parallel to the floor.



- 26) The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

- 27) Never block or cover the slots or openings in the TV cabinet back, bottom, and sides. Never place the TV:

- On a bed, sofa, rug, or similar surface;
- Too close to drapes, curtains, or walls; or
- In a confined space such as a bookcase, built-in cabinet, or any other place with poor ventilation.



The slots and openings are provided to protect the TV from overheating and to help maintain reliable operation of the TV. Leave a space of at least 4 (four) inches around the TV.

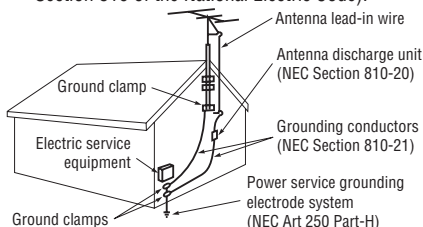
- 28) Always place the back of the television at least four (4) inches away from any vertical surface (such as a wall) to allow proper ventilation.

- 29) Never allow anything to rest on or roll over the power cord, and never place the TV where the power cord is subject to wear or abuse.

- 30) Never overload wall outlets and extension cords.

- 31) Always operate this equipment from a 120 VAC, 60 Hz power source only.

- 32) Always make sure the antenna system is properly grounded to provide adequate protection against voltage surges and built-up static charges (see Section 810 of the National Electric Code).



33)



DANGER: RISK OF SERIOUS PERSONAL INJURY OR DEATH!

- Use extreme care to make sure you are never in a position where your body (or any item you are in contact with, such as a ladder or screwdriver) can accidentally touch overhead power lines. Never locate the antenna near overhead power lines or other electrical circuits.
- Never attempt to install any of the following during lightning activity: a) an antenna system; or b) cables, wires, or any home theater component connected to an antenna or phone system.

Care

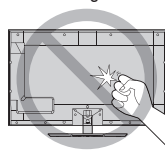
For better performance and safer operation of your TOSHIBA TV, follow these recommendations and precautions:

- 34) If you use the TV in a room whose temperature is 32 °F (0 °C) or below, the picture brightness may vary until the LCD warms up. This is not a sign of malfunction.

- 35) Always unplug the TV before cleaning. Gently wipe the display panel surface (the TV screen) using a dry, soft cloth only (cotton, flannel, etc.). A hard cloth may damage the surface of the panel. Avoid contact with alcohol, thinner, benzene, acidic or alkaline solvent cleaners, abrasive cleaners, or chemical cloths, which may damage the surface. Never spray volatile compounds such as insecticide on the cabinet. Such products may damage or discolor the cabinet.



- 36) Never hit, press, or place anything on the back cover. These actions will damage internal parts.



37)



WARNING: RISK OF ELECTRIC SHOCK!



Never spill liquids or push objects of any kind into the TV cabinet slots.

- 38) While it is thundering, do not touch the connecting cables or apparatus.

(continued)

- 39) For added protection of your TV from lightning and power surges, always unplug the power cord and disconnect the antenna from the TV if you leave the TV unattended or unused for long periods of time.
- 40) ALWAYS unplug the TV to completely disconnect from mains power. When the TV is turned off using the on/off switch, it is not completely disconnected from power and a minute amount of current is still consumed.
- 41) During normal use, the TV may make occasional snapping or popping sounds. This is normal, especially when the unit is being turned on or off. If these sounds become frequent or continuous, unplug the power cord and contact a Toshiba Authorized Service Center.

- 42)  **DANGER: RISK OF SERIOUS PERSONAL INJURY OR DEATH!**

Never strike the screen with a sharp or heavy object.



- 43) • The LCD screen of this product can be damaged by ultraviolet radiation from the sun. When selecting a location for the television, avoid locations where the screen may be exposed to direct sunlight, such as in front of a window.
- Never touch, press, or place anything on the LCD screen. These actions will damage the LCD screen. If you need to clean the LCD screen, follow the instructions in item 35 on page 4.

Service

- 44)  **WARNING: RISK OF ELECTRIC SHOCK!** 
- Never attempt to service the TV yourself. Opening and removing the covers may expose you to dangerous voltage or other hazards. Failure to follow this WARNING may result in death or serious injury. Refer all servicing not specified in this manual to a Toshiba Authorized Service Center.
- 45) If you have the TV serviced:
- Ask the service technician to use only replacement parts specified by the manufacturer.
 - Upon completion of service, ask the service technician to perform routine safety checks to determine that the TV is in safe operating condition.

Choosing a location for your LCD TV

To Display your LCD TV on the included Pedestal Stand:

Observe the following safety precautions:

- 1) Read and Follow the pedestal assembly instructions included with the pedestal.

CAUTION: Before beginning pedestal assembly, carefully lay the front of the LCD Panel face down on a flat, cushioned surface such as a quilt or blanket. Leave the bottom of the unit protruding over the edge of the surface and assemble the pedestal as indicated below.

Note: *Extreme care should always be used when attaching the pedestal stand to avoid damage to the LCD panel.*

- 2) Place the TV on a sturdy, level surface that can support the weight of the TV.
- 3) Be sure to secure the TV to a wall, pillar, surface, or other immovable structure. (see item 25, page 4).

To Display your LCD TV using a Wall Bracket:

If you decide to wall mount your LCD TV, always use a UL listed wall bracket appropriate for the size and weight of the LCD TV (see page 2):

- 1) **CAUTION:** Two people are required for installation.
- 2) Unplug and remove any cables and/or other component connectors from the rear of the TV.
- 3) Remove the screws of the VESA Mounting Pattern show in the next page.
- 4) Always use the screws supplied or recommended by the wall mount manufacturer.
- 5) Follow the instructions provided with your wall bracket. Before proceeding, make sure the appropriate bracket(s) are attached to the wall and the back of the TV as described in the instructions provided with the wall bracket.
- 6) After attaching the appropriate bracket(s) to the wall and the back of the TV, remove the pedestal stand from the TV as described on the following page.

(continued)

7) VESA Mounting Pattern

TV Size	Hole Pattern(HxV)	Screw Size
40"	400x400 mm	M8
46"	400x400 mm	M8
55"	400x400 mm	M8

(unit in mm)

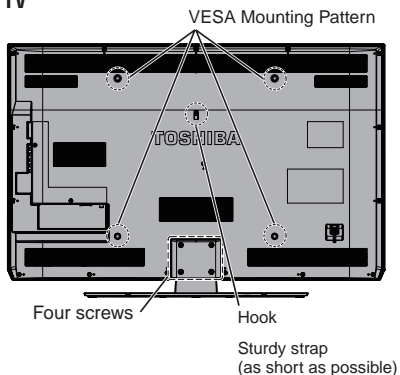
Removing the Pedestal Stand

- 1) Carefully lay the front of the unit face down on a flat, cushioned surface such as a quilt or blanket. Leave the stand protruding over the edge of the surface.

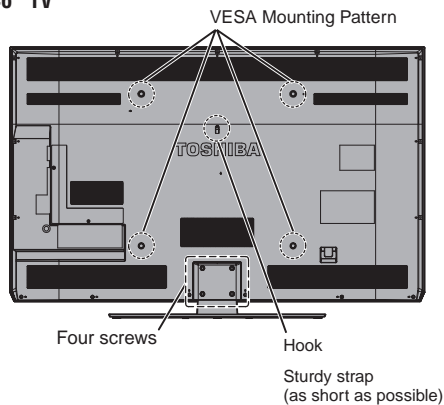
Note: Extreme care should always be used when removing the pedestal stand to avoid damage to the LCD panel.

- 2) Remove the four screws shown in the right diagram. This will allow removal of the pedestal stand.
- 3) Once you have removed all four screws, holding the pedestal stand in place, remove the pedestal stand from the TV.

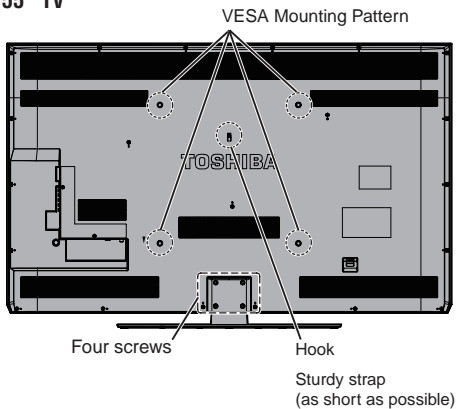
40" TV



46" TV



55" TV



CAUTION: Always place the TV on the floor or a sturdy, level, stable surface that can support the weight of the unit. To secure the TV, use a sturdy strap from the hook(s) on the rear of the TV to a wall stud, pillar, or other immovable structure. Make sure the strap is tight, secure, and parallel to the floor.

FCC Declaration of Conformity Compliance Statement (Part 15):

The **Toshiba 40UL605U, 46UL605U, and 55UL605U Televisions** comply with Part 15 of the FCC rules.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

The party responsible for compliance to these rules is:
Toshiba America Consumer Products, L.L.C.
82 Totowa Rd. Wayne, NJ 07470.
Ph: 1-800-631-3811

Note: *This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by removing and applying power to the equipment, the user is encouraged to try to correct the interference by one or more of the following measures:*

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: *Changes or modifications to this equipment not expressly approved by Toshiba could void the user's authority to operate this equipment.*

Wireless Radio

For product available in the USA/Canada market, only channel 1–11 can be operated. Selection of other channels is not possible. The device could automatically discontinue transmission in case of absence of information to transmit, or operational failure. Note that this is not intended to prohibit transmission of control or signaling information or the use of repetitive codes where required by the technology. If this device is going to be operated in 5.15–5.25GHz frequency range, then it is restricted in indoor environment only.

Important: *Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.*

FCC Radiation Exposure Statement: *This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.*

Canada - Industry Canada Statement

This device complies with RSS-210.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation of the device. This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

Wireless Radio

For product available in the USA/Canada market, only channel 1–11 can be operated. Selection of other channels is not possible. The device could automatically discontinue transmission in case of absence of information to transmit, or operational failure. Note that this is not intended to prohibit transmission of control or signaling information or the use of repetitive codes where required by the technology.

Important: *Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.*

IMPORTANT NOTE:

IC Radiation Exposure Statement: *This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.*

ENERGY STAR® User Information:

ENERGY STAR User Information Statement: The factory default settings of this television meet ENERGY STAR requirements. Changing Picture Settings may increase energy consumption, possibly beyond the limits required for ENERGY STAR qualification.

To ensure your television is operating at optimal energy efficiency, select [Home] mode during initial activation. To return to [Home] mode settings, select [Standard] picture mode. [Standard] mode is recommended for normal home use.



ENERGY STAR® qualified TV. Products that earn the ENERGY STAR prevent green house gas emissions by meeting strict guidelines set by the U.S. Environmental Protection Agency. ENERGY STAR and the ENERGY STAR mark are registered U.S. marks.

Important notes about your LCD TV

The following symptoms are technical limitations of LCD Display technology and are not an indication of malfunction; therefore, Toshiba is not responsible for perceived issues resulting from these symptoms.

- 1) An afterimage (ghost) may appear on the screen if a fixed, nonmoving image is displayed for a long period of time. The afterimage is not permanent and will disappear in a short period of time.
- 2) The LCD panel contained in this TV is manufactured using an extremely high level of precision technology; however, there may be an occasional pixel (dot of light) that does not operate properly (does not light, remains constantly lit, etc.). This is a structural property of LCD technology, is not a sign of malfunction, and is not covered under your warranty. Such pixels are not visible when the picture is viewed from a normal viewing distance.

Note: Interactive video games that involve shooting a "gun" type of joystick at an on-screen target may not work with this TV.

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Chapter 1: Introduction

Features of your new TV

The following are just a few of the many exciting features of your new Toshiba widescreen, integrated HD, LCD TV:

- **Integrated digital tuning (8VSB ATSC and QAM)** eliminates the need for a separate digital converter set-top box (in most cases).
- 1080p output resolution.
- **Four HDMI®** digital, high-definition multimedia interfaces 1080p input support (see page 18).
- **HDMI new capability**
INSTAPORT™ technology reduces lag time when switching HDMI sources.
- **One set of ColorStream® HD** high-resolution component video inputs (see page 17).
- **QSound®** audio technologies (see page 64).
- **Digital Audio Out** optical audio connection with Dolby® Digital optical output format (see page 49).
- **CableClear®** digital picture noise reduction (see page 63).
- **PC IN (Analog RGB)** computer terminal (see pages 20-21).
- **REGZA-LINK** allows control of external devices from the TV remote via HDMI connection (see page 59).
- **ClearFrame™** 120 Hz anti-blur feature (see page 63).
- **DLNA®** allows you to enjoy multimedia files from your home network on your TV.
- **Media Player** allows you to view photo files and to play music or movie files. (see page 56).
- **Netflix** allows you to access select featured websites from your television.
- **VUDU** allows you to access select featured websites from your television.
- **Widgets** allows you to access select featured websites from your television.
-  **ENERGY STAR® qualified**

Chapter 1: Introduction

Overview of steps for installing, setting up, and using your new TV

Follow these steps to set up your TV and begin using its many exciting features.

- 1 Carefully read the important safety, installation, care, and service information. Keep this manual for future reference.
- 2 Observe the following when choosing a location for the TV:
 - Read “Important notes about your LCD TV” (see page 8).
 - Place the TV on the floor or a sturdy, level, stable surface that can support the weight of the unit. Secure the TV to a wall, pillar, or other immovable structure (see page 4).
 - Place the TV in a location where light does not reflect on the screen.
 - Place the TV far enough from walls and other objects to allow proper ventilation. Inadequate ventilation may cause overheating, which will damage the TV. **THIS TYPE OF DAMAGE IS NOT COVERED UNDER THE TOSHIBA WARRANTY.**
- 3 Do not plug in any power cords until AFTER you have connected all cables and devices to your TV.
- 4 BEFORE connecting cables or devices to the TV, learn the functions of the TV’s connections and controls (see pages 13–14).
- 5 Connect your other electronic device(s) to the TV (see pages 15–23).
- 6 Install the batteries in the remote control (see page 24).
- 7 See “Learning about the remote control” (see page 25) for an overview of the buttons on the remote control.
- 8 Program the remote control to operate your other device(s) (see pages 26–30).
- 9 AFTER connecting all cables and devices, plug in the power cords for your TV and other devices. Then press **POWER** on the TV control panel or remote control to turn on the TV. If the TV stops responding to the controls on the remote control or TV control panel and you cannot turn the TV off or on, please unplug the power cords few seconds then re-plug to try again.
- 10 See “Menu layout and navigation” for a quick overview of navigating the TV’s menu system (see pages 31–33).
- 11 Program channels into the TV’s channel memory (see page 34).
- 12 For details on using the TV’s features, see Chapters 6, 7 and 8.
- 13 For help, refer to the Troubleshooting Guide, Chapter 9.
- 14 For technical specifications and warranty information, see Chapter 10.
- 15 Enjoy your new TV!

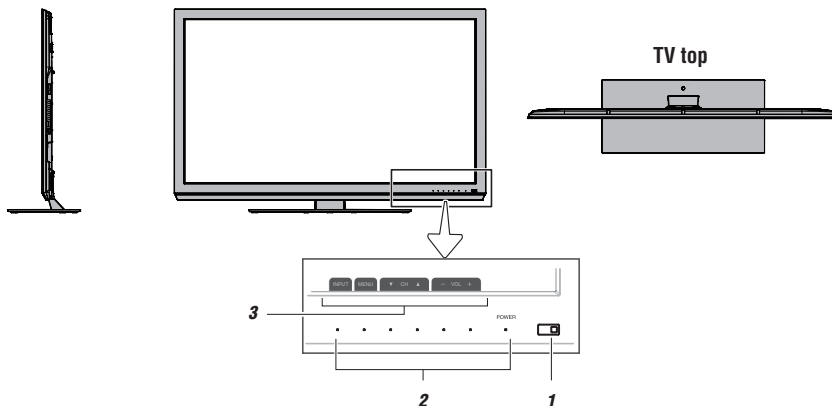
TV front panel controls

Model 40UL605U is used in this manual for illustration purposes.

Right side panel

TV front

TV top



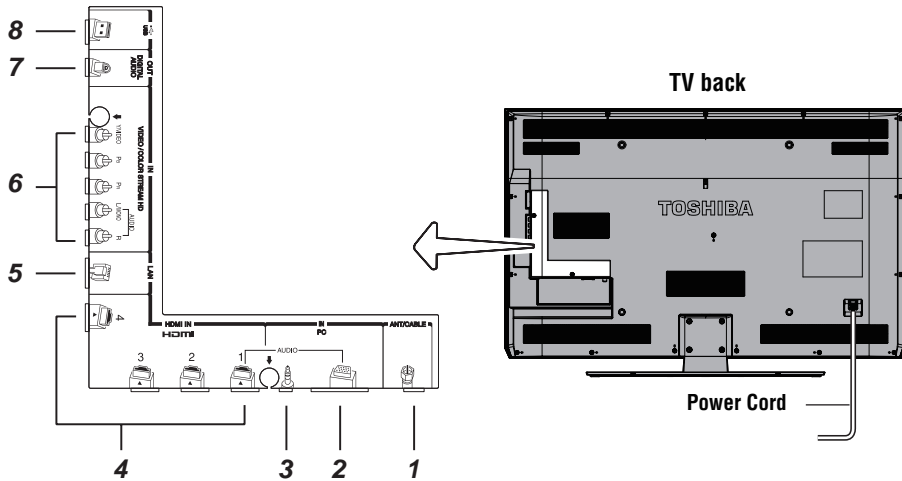
- 1 Remote sensor** — Point the remote control toward this remote sensor (see “Remote control effective range” on page 24).
- 2 Touch Sensor** — To use Touch Sensor, touch on the LED whole.
Except for POWER key, the first touch on the sensor key shows Touch Sensor window and further touch work according to Touch Sensor window indication.
 - **POWER** — To turn the TV on and off.
 - **VOL +/–** — These buttons adjust the volume level. When a menu is on-screen, these buttons function as left/right menu navigation buttons.
 - **CH ▲▼** — When no menu is on-screen, these buttons change the channel (programmed channels only; see page 34). When a menu is on-screen, these buttons function as up/down menu navigation buttons.
 - **MENU(OK)** — to access the menu system (see pages 31–32). When a menu is on-screen, the **MENU** button on the TV’s control panel functions as the **OK** button.

- **INPUT (EXIT)** — to change the source you are viewing. When a menu is on-screen, the **INPUT** button on the TV’s control panel functions as the **EXIT** button.

- 3 Touch Sensor window** — Touch Sensor window indicates the function of touch sensor. This window doesn’t appear until you touch Touch Sensor.

TV back panel connections

For an explanation of cable types and connections, see pages 15–23.



- 1 **ANT/CABLE** — Antenna input that supports analog (NTSC) and digital (ATSC) off-air antenna signals and analog and digital Cable TV (QAM) signals.
- 2 **PC IN** — For use when connecting a personal computer.
- 3 **PC/HDMI-1 (AUDIO) IN** — PC audio input terminals are shared with HDMI-1 analog audio input terminals, and their use can be configured in the **Audio Setup** menu (see page 54).
- 4 **HDMI® IN** — High-Definition Multimedia Interface input receives digital audio and uncompressed digital video from an HDMI device or uncompressed digital video from a DVI device. HDMI connection is necessary to receive 1080p signals.
- 5 **LAN IN** — LAN port is used to connect the TV to your home network.

- 6 **VIDEO / COLOR STREAM® HD IN** — These include standard A/V connections. These are switched by AV input mode (see page 36).

Note: *Component / Standard (composite) video cables carry only video information; separate audio cables are required for a complete connection.*

- 7 **DIGITAL AUDIO OUT** — Optical audio output in Dolby Digital or PCM (pulse-code modulation) format for connecting an external Dolby Digital decoder, amplifier, A/V receiver, or home theater system with optical audio input.
- 8 **USB port** — To access photo or music files with USB device, or using WLAN with Dual Band WLAN Adapter.

Chapter 2: Connecting your TV

Overview of cable types

Cables can be purchased from most stores that sell audio/video devices. Before purchasing any cables, be sure of connector types required by your devices and the length of each cable.

Coaxial (F-type) cable



Coaxial (F-type) cable is used for connecting your antenna, cable TV service, and/or cable converter box to the **ANT/CABLE** input on your TV.

Standard A/V cables (red/white/yellow)



Standard A/V cables (composite video) usually come in sets of three, and are for use with video devices with analog audio and composite video output. These cables (and the related inputs on your TV) are typically color-coded according to use: yellow for video, red for stereo right audio, and white for stereo left (or mono) audio.

Component video cables (red/green/blue)



Component video cables come in sets of three and are for use with video devices with component video output. (ColorStream® is Toshiba's brand of component video.) These cables are typically color-coded red, green, and blue. Separate audio cables are required for a complete connection.

Note: Component video cables provide better picture performance than a standard (composite) video.

HDMI® cable (with HDMI Logo “HDMI”)



HDMI (High-Definition Multimedia Interface) cable is for use with devices with an HDMI output. An HDMI cable delivers digital audio and video in its native format. This cable carries both video and audio information; therefore, separate audio cables are not required for a complete HDMI device connection (see pages 18-19 and page 21).

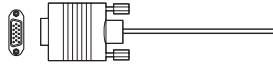
Note: HDMI cable provides better picture performance than a standard (composite) video.

Optical audio cable



Optical audio cable is for connecting receivers with Dolby Digital or PCM (pulse-code modulation) optical audio input to the TV's **DIGITAL AUDIO OUT** terminal (see page 20).

Analog RGB (15-pin) computer cable



Analog RGB (15-pin) computer cable is for connecting a PC to the TV's **PC IN** terminal (see page 20).

Note: Separate audio cables are required for a complete connection.

3.5mm Stereo to RCA Y-cable



3.5mm Stereo to RCA Y-Cable is for connecting audio signal from DVI device to TV.

LAN cable

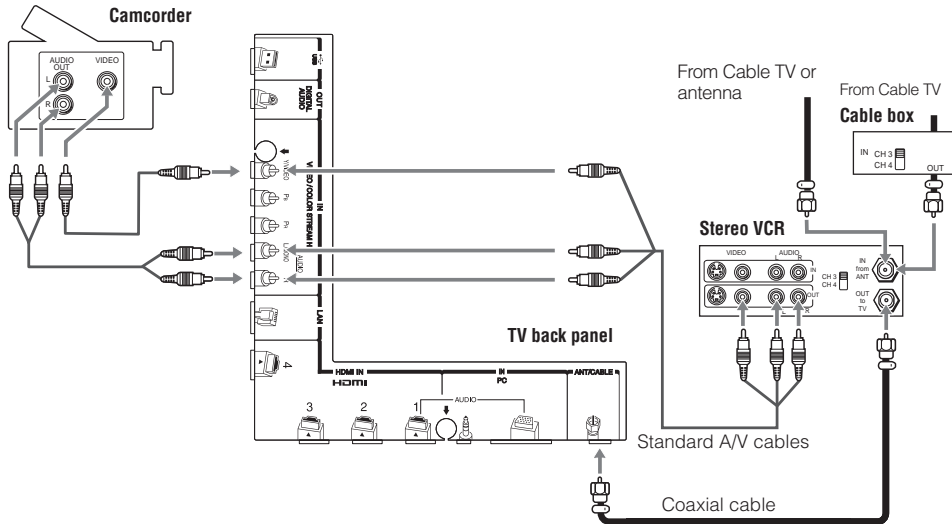


Standard LAN cable is used to connect the TV to your home network. (see page 22 and Chapter 8).

About the connection illustrations

You can connect different types and brands of devices to your TV in several different configurations. The connection illustrations in this manual are representative of typical device connections only. The input/output terminals on your devices may differ from those illustrated herein. For details on connecting and using your specific devices, refer to each device's owner's manual.

Connecting a VCR and antenna, Cable TV or Camcorder



You will need:

- Coaxial cables
- Standard A/V cables
 - If you have a mono VCR, connect **L/MONO** on the TV to your VCR's audio out terminal using the white audio cable only.
- Standard audio cables (If you have a mono VCR)

Note: When you use a Cable box, you may not be able to use the remote control to program or access certain features on the TV.

To view the antenna or Cable signal:

Select the **ANT/CABLE** video input source on the TV.*

To view basic and premium Cable channels:

Turn OFF the VCR. Select the **ANT/CABLE** video input source on the TV.* Tune the TV to channel 3 or 4 (whichever channel the Cable box output is set to). Use the Cable box controls to change channels.

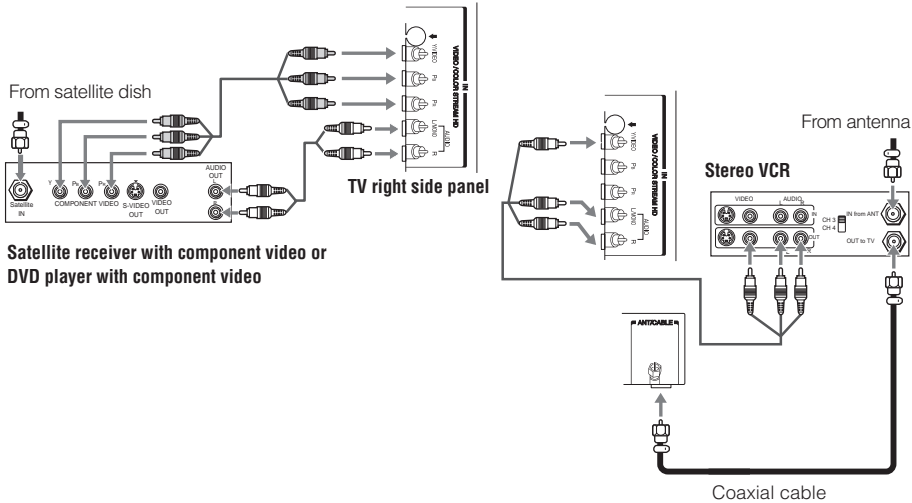
To view the VCR or camcorder video:

Turn ON the VCR or camcorder video. Select the **VIDEO** video input source on the TV.*

- * To select the video input source, press **INPUT** on the remote control (§ page 25). To program the TV remote control to operate other devices, see Chapter 3.

The unauthorized recording, use, distribution, or revision of television programs, videotapes, DVDs, and other materials is prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.

Connecting a DVD player with ColorStream® (component video), a VCR, or a satellite receiver



You will need:

- Coaxial cables
- Standard A/V cables
 - If you have a mono VCR, connect **L/MONO** on the TV to your VCR's audio out terminal using the white audio cable only.
- Standard audio cables
- Component video cables
 - You can connect the component video cables (plus audio cables) from the DVD player or satellite receiver to the **ColorStream** terminal on the TV. The **ColorStream HD** terminal can be used with Progressive (480p, 720p) and Interlaced (480i, 1080i) scan systems. A 1080i signal will provide the best picture performance (1080p is not supported).

To view antenna or Cable channels:

Select the **ANT/CABLE** video input source on the TV.*

To view the DVD player:

Turn ON the DVD player. Select the **ColorStream HD** video input source on the TV.*

To view satellite programs using the component video connections:

Turn on the satellite receiver. Select the **ColorStream HD** video input source on the TV.*

To view the VCR or view and record antenna channels:

Turn ON the VCR. Tune the VCR to the channel you want to watch. Select the **VIDEO** video input source on the TV.*

To record a TV program while watching a DVD:

Turn ON the VCR. Tune the VCR to the channel to record. Select the **ColorStream HD** video input source on the TV* to view the DVD.

* To select the video input source, press **INPUT** on the remote control (see page 25). To program the TV remote control to operate other devices, see Chapter 3.

The unauthorized recording, use, distribution, or revision of television programs, videotapes, DVDs, and other materials is prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.

Chapter 2: Connecting your TV

Connecting an HDMI® or DVI device to the HDMI input


The HDMI input on your TV receives digital audio and uncompressed digital video from an HDMI source device, or uncompressed digital video from a DVI (Digital Visual Interface) source device. This input is designed to accept HDCP (High-Bandwidth Digital-Content Protection) program material in digital form from EIA/CEA-861-D-compliant^[1] consumer electronic devices (such as a set-top box or DVD player with HDMI or DVI output).

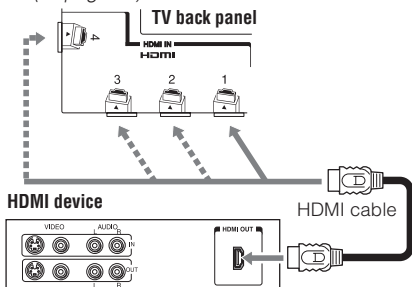
The HDMI input can accept and display VGA, SVGA, XGA, WXGA, SXGA, 480i (60Hz), 480p (60Hz), 720p (60Hz), 1080i (60Hz) and 1080p (24Hz/60Hz) signal formats. For detailed signal specifications, see page 76.

Supported Audio format: Linear PCM, sampling rate 32/44.1/ 48 kHz

Note: To connect a PC to the HDMI input, see page 21.


To connect an HDMI device, you will need:

- One HDMI cable (type A connector) per HDMI device
 - For proper operation, it is recommended that you use an HDMI cable with the HDMI Logo (**HDMI**).
 - To display an 1080i/60Hz signal format, you will need a High Speed HDMI cable. Conventional HDMI/DVI cable may not work properly.
 - HDMI cable transfers both video and audio. Separate analog audio cables are not required (see illustration).
 - See “Setting the HDMI® audio mode” ( page 36).




To view the HDMI device video:

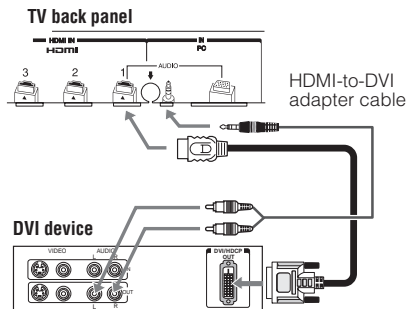
Select the HDMI 1, HDMI 2, HDMI 3 or HDMI 4 video input source on the TV.*

* To select the video input source, press **INPUT** on the remote control ( page 25). To program the

TV remote control to operate other devices, see Chapter 3.

To connect a DVI device, you will need:

- One HDMI-to-DVI adapter cable (HDMI type A connector) per DVI device
 - For proper operation, the length of an HDMI-to-DVI adapter cable should not exceed 9.8 ft (3m). The recommended length is 6.6 ft (2m).
- One 3.5mm Stereo to RCA Y-Cable
 - An HDMI-to-DVI adapter cable transfers video only. Separate analog audio cables are required (see illustration).
 - See “Setting the HDMI® audio mode” ( page 36).



Note: To ensure that the HDMI or DVI device is reset properly, it is recommended that you follow these procedures:

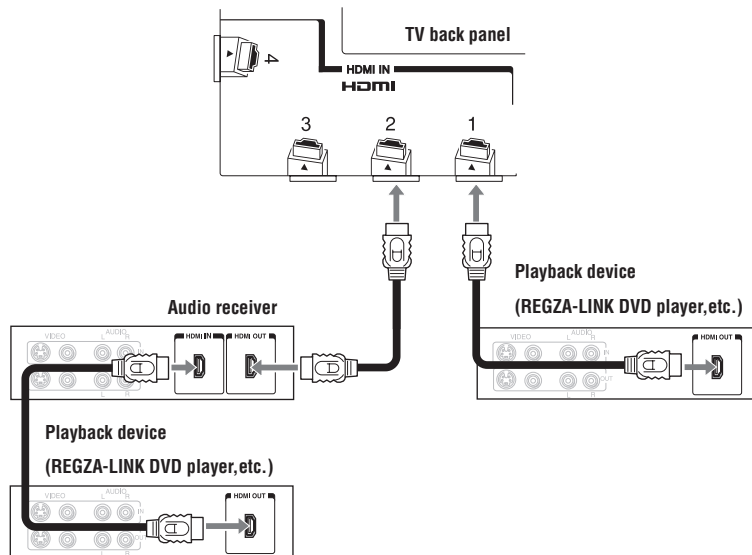
- When turning on your electronic components, **turn on the TV first**, and then the HDMI or DVI device.
- When turning off your electronic components, **turn off the HDMI or DVI device first**, and then the TV.

[1] EIA/CEA-861-D compliance covers the transmission of uncompressed digital video with high-bandwidth digital content protection, which is being standardized for reception of high-definition video signals. Because this is an evolving technology, it is possible that some devices may not operate properly with the TV.

Chapter 2: Connecting your TV

REGZA-LINK® connection

You can control the basic functions of connected audio/video devices using the TV's remote control if you connect a REGZA-LINK compatible audio receiver or playback device. For an explanation of setup and operations, see pages 59-60.



To connect an Audio Receiver and Playback Devices, you will need:

- HDMI cables (see page 15)

Note:

- If several devices are connected, REGZA-LINK feature may not operate properly.
- For proper operation, it is recommended that you use HDMI cables with the HDMI Logo (HDMI®).

Before controlling the device(s):

- After completing the above connections, set the **REGZA-LINK Setup** menu as you desire (see page 60).
- The connected devices must also be set. For details, see the operation manual for each device.
- The REGZA-LINK feature uses the CEC technology as regulated by the HDMI standard.
- This feature is limited to models incorporating Toshiba's REGZA-LINK. However, Toshiba is not liable for those operations. Refer to the individual instruction manuals for compatibility information.

Note: This feature may not work properly depending on the devices that are connected.

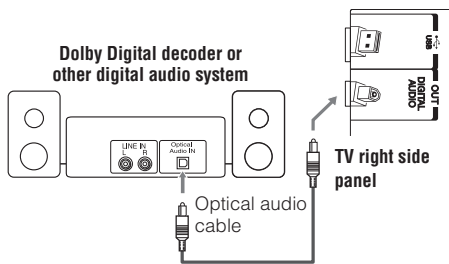
Chapter 2: Connecting your TV

Connecting a digital audio system

The TV's **DIGITAL AUDIO OUT** terminal outputs a *Dolby® Digital or 2-channel down-mixed PCM (pulse-code modulation) signal for use with an external Dolby® Digital decoder or other external audio system with optical audio input.

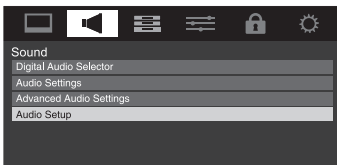
You will need:

- Optical audio cable (Use an optical audio cable that has the larger "TosLink" connector and not the smaller "mini-optical" connector.)

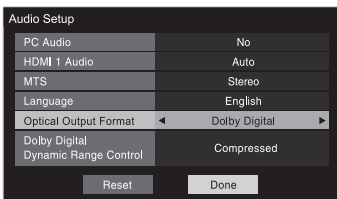


To control the audio:

- Turn on the TV and the digital audio device.
- Press **(MENU)** on the TV's remote control and open the **Sound** menu.
- Highlight **Audio Setup** and press **(OK)**.



- In the **Optical Output Format** field, select either **Dolby Digital** or **PCM**, depending on your device (ⓘ "Selecting the optical audio output format" on page 49).



Note:

- Some audio systems may not be compatible with Dolby Digital bitstream signals. Older

audio systems that are not compatible with standard optical out signals may not work properly, creating a high noise level that may damage speakers or headphones. **THIS DAMAGE IS NOT COVERED BY YOUR WARRANTY.**

- The **DIGITAL AUDIO OUT** terminal may not output some digital audio sources because of copy restrictions.

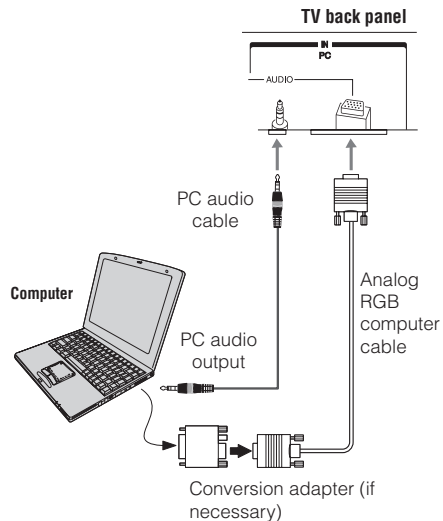
* Manufactured under license from Dolby Laboratories. Dolby, and the double-D symbol are trademarks of Dolby Laboratories.

Connecting a personal computer (PC)

With either the PC IN or HDMI connection, you can watch your computer's display on the TV and hear the sound from the TV's speakers.

To connect a PC to the PC IN terminal on the TV:

When connecting a PC to the PC IN terminal on the TV, use an analog RGB (15-pin) computer cable and a PC audio cable.



- To use a PC, set the monitor output resolution on the PC before connecting it to the TV. The PC IN terminal can accept and display VGA, SVGA, XGA, WXGA and SXGA signal formats. For detailed signal specifications (ⓘ page 76).

Other formats or non-standard signals will not be displayed correctly.

- To display the optimum picture, use the PC setting feature (ⓘ "Using the PC settings feature" on page 53).

(continued)

Chapter 2: Connecting your TV

Note:

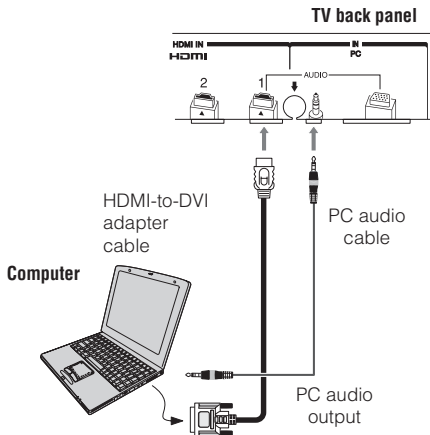
- The PC audio input terminals on the TV are shared with the HDMI-1 analog audio input terminals.
- Some PC models cannot be connected to this TV.
- An adapter is not needed for computers with a compatible mini D-sub 15-pin terminal.
- Depending on the DVD's title and the specifications of the PC on which you are playing the DVD-Video, some scenes may be skipped or you may not be able to pause during multi-angle scenes.
- Signal names for mini D-sub 15-pin connector

Pin No.	Signal name	Pin No.	Signal name	Pin No.	Signal name
1	R	6	Ground	11	Reserved
2	G	7	Ground	12	SDA
3	B	8	Ground	13	H-sync
4	Reserved	9	5V	14	V-sync
5	Reserved	10	Ground	15	SCL

To connect a PC to the HDMI terminal on the TV:

When connecting a PC to the HDMI terminal on the TV, use an HDMI-to-DVI adapter cable and analog audio cables.

If connecting a PC with an HDMI terminal, use an HDMI cable (type A connector). Separate analog cables are not necessary (see page 15).



The HDMI input can accept and display VGA, SVGA, XGA, WXGA, SXGA, 480i (60Hz), 480p (60Hz), 720p (60Hz), 1080i (60Hz), and 1080p (24Hz/60Hz) signal formats. For detailed signal specifications, see page 76.

Note:

- The edges of the images may be hidden.
- If receiving a 480i (HDMI), 480p (HDMI), 720p, 1080i, or 1080p signal program, Native mode scales the video to display the entire picture within the borders of the screen (i.e. no overscanning).

(continued)

Chapter 2: Connecting your TV

Connecting a home network

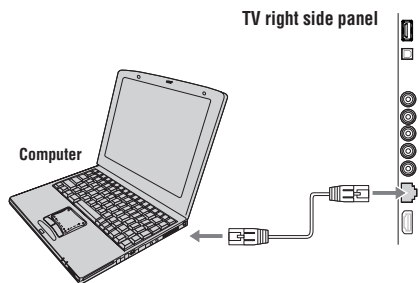
The LAN port allows your Toshiba TV to connect to your home network.

You can use this home network to access photo, movie and music files that are stored on a DLNA CERTIFIED™ Server and play them on your TV.

Connecting the TV directly to a PC without an Internet connection

You will need:

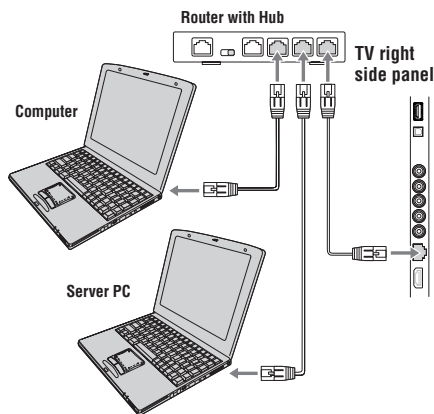
- Crossover LAN cable



Connecting the TV to a home network without an Internet connection

You will need:

- Standard LAN cables
- Router with Hub

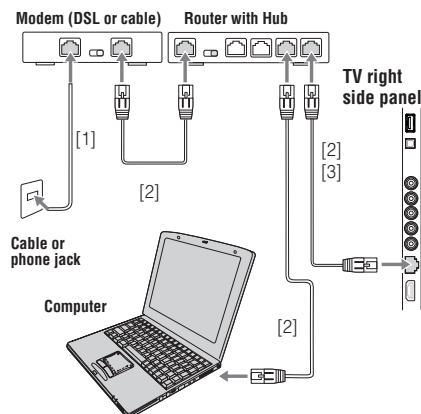


Chapter 2: Connecting your TV

Connecting the TV to a home network with an Internet connection - Cable

You will need:

- Coaxial or telephone cable (depending on your modem type)
- Standard LAN cables
- Router with Hub
- Modem (DSL or cable)

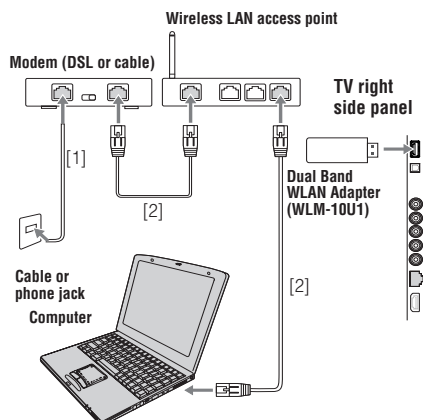


- [1] Coaxial or telephone cable (depending on your modem type)
 [2] Standard LAN cable
 [3] Do NOT connect a phone jack directly to the TV's LAN port.

Connecting the TV to a home network with an Internet connection - Wireless

You will need:

- Coaxial or telephone cable (depending on your modem type)
- Standard LAN cables
- Dual Band WLAN Adapter (WLM-10U1)
(See Specifications are on page 75.)
- Wireless LAN access point
- Modem (DSL or cable)



The transmission speed over the wireless LAN and the distance over which wireless LAN can reach may vary depending on surrounding electromagnetic environment, obstacles, access point design and configuration, and client design and software/hardware configurations. The actual transmission speed will be lower than the theoretical maximum speed.

The Dual Band WLAN Adapter is based on the IEEE 802.11n specification and may not be fully compatible with, or support some features (e.g., security) of certain Wi-Fi equipment that are based on the draft version of IEEE 802.11n.

- [1] Coaxial or telephone cable (depending on your modem type)
 [2] Standard LAN cable

Chapter 3: Using the remote control

Preparing the remote control for use

Your TV remote control can operate your TV and many other devices such as cable converter boxes, satellite receivers, VCRs, DVD players, and HTIBs (home theater in a box), even if they are different brands.

If you have a Toshiba device:

Your TV remote control is preprogrammed to operate most Toshiba devices (see page 27).

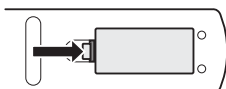
If you have a non-Toshiba device or a Toshiba device that the remote control is not preprogrammed to operate:

You can program the TV remote control so it will operate the other device (see page 28).

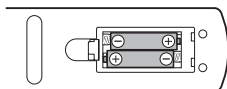
Installing the remote control batteries

- 1 Slide the battery cover off the back of the remote control.

Squeeze tab and lift cover.



- 2 Install two “AAA” size carbon zinc batteries. Match the + and – symbols on the batteries to the symbols on the battery compartment.



- 3 Slide the battery cover on to the remote control until the lock snaps.

Caution: Batteries must not be exposed to excessive heat such as sunshine, fire or the like.

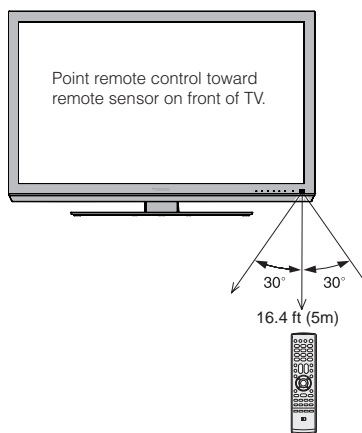
Note:

- Be sure to use AAA size carbon zinc batteries.
- Dispose of batteries in a designated disposal area.
- Batteries should always be disposed of with the environment in mind. Always dispose of batteries in accordance with applicable laws and regulations.

- If the remote control does not operate correctly, or if the operating range becomes reduced, replace batteries with new ones.
- When necessary to replace batteries in the remote control, always replace both batteries with new ones. Never mix battery types or use new and used batteries in combination.
- Always remove batteries from the remote control if they are dead or if the remote control is not to be used for an extended period of time. This will prevent battery acid from leaking into the battery compartment.

Remote control effective range

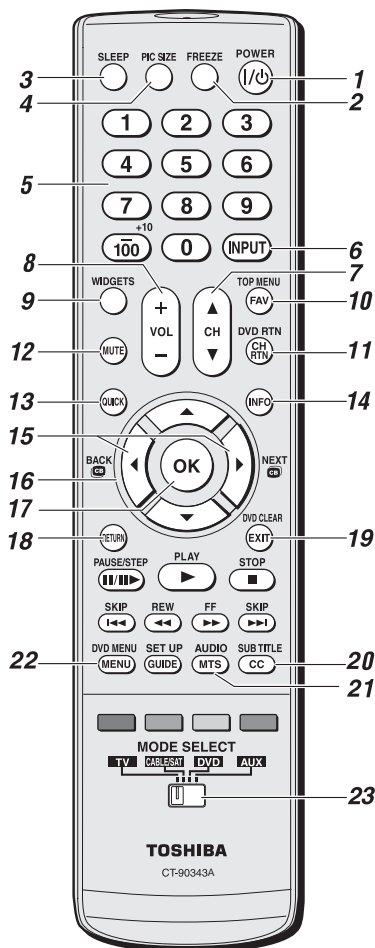
For optimum performance, aim the remote control directly at the TV and make sure there is no obstruction between the remote control and the TV.



Chapter 3: Using the remote control

Learning about the remote control

The buttons used for operating the TV only are described here. For a complete list of the remote control's functions, see "Remote control functional key chart" (pages 27-28).



Note: The error message "NOT AVAILABLE" may appear if you press a key for a function that is not available.

- 1 **POWER** turns the TV on and off. When the TV is on, the green LED indicator on the TV front will be illuminated.
- 2 **FREEZE** freezes the picture. Press again to restore the moving picture (page 45).
- 3 **SLEEP** accesses the sleep timer (page 58).
- 4 **PIC SIZE** cycles through the picture sizes: **Natural**, **TheaterWide 1/2/3**, **Full**, **4:3 HD**, **Native** and **Dot by Dot** (pages 42-44).
- 5 **Channel Numbers (0-9, -/100)** directly tune channels. The **100** button is used to tune digital channels (page 42) or to edit the Favorites List (page 39).
- 6 **INPUT** selects the video input source (page 38).
- 7 **CH ▲▼** cycles through programmed channels when no menu is on-screen (pages 34-35).
- 8 **VOL + -** adjusts the volume level.
- 9 **WIDGETS** selects featured websites from Net TV menu.
- 10 **FAV** accesses the Favorites List in the Channel Browser™ (page 39).
- 11 **CH RTN** returns to the last viewed channel or source (page 42).
- 12 **MUTE** reduces or turns off the sound (page 47).
- 13 **QUICK** accesses Quick menu.
- 14 **INFO** displays TV status information as well as program details, when available (page 61).
- 15 **BACK** ◀ / **NEXT** ▶ While watching TV, these buttons open the Channel Browser™ and tune to the previous/next channel in the channel history (page 39). (Also see "Arrow buttons.")
- 16 **Arrow buttons (▲▼◀▶)** When a menu is on-screen, these buttons select or adjust programming menus. (Also see **BACK** ◀ / **NEXT** ▶.)
- 17 **OK** activates highlighted items in the main menu system.
- 18 **RETURN** returns to previous menu.
- 19 **EXIT** closes on-screen menus.
- 20 **CC** opens the closed caption selector (pages 46-47).
- 21 **MTS** selects the audio mode.
- 22 **MENU** accesses the main TV menu system (pages 31-33).
- 23 **MODE SELECT** switch selects between TV, CABLE/SAT, DVD, and AUX modes (page 26). Set to "TV" to control the TV.

Chapter 3: Using the remote control

Using the remote control to control your other devices

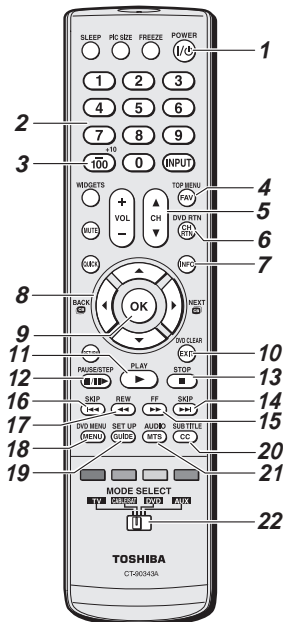
If you have a non-Toshiba device or a Toshiba device that the remote control is not preprogrammed to operate, you must first program the remote control to recognize the device (if you have not already done so) (see pages 28–30).

To use your TV remote control to operate a:

- Cable converter box or satellite receiver, set the **MODE SELECT** switch to **CABLE/SAT**.
- DVD player or HTIB, set the **MODE SELECT** switch to **DVD**.
- VCR, set the **MODE SELECT** switch to **AUX**.

Note: Even after the TV remote control is programmed, it may not operate certain features on any other devices. If this happens and you wish to use those features, you will need to use the device's original remote control.

Point the remote control directly at the device.



- 1 POWER** Turns the selected device on and off.
- 2 Channel Numbers (0-9)** Press to directly access channels (as opposed to).
- 3 +10** Press to directly access DVD chapters higher than 10.
- 4 TOP MENU** Accesses a DVD's top menu.
- 5 CH ▲▼** For channels programmed into the channel memory (see pages 34-35):
▲ selects the next higher channel.
▼ selects the next lower channel.
- 6 DVD RTN** Returns to previous DVD's menu.
- 7 INFO** Displays TV status information on-screen.
- 8 ▲▼◀▶** Press to navigate DVD menus (may not work on some DVD players).
- 9 OK** Required by some satellite receivers and DVD players to activate certain functions.
- 10 EXIT** Closes on-screen menus.
DVD CLEAR Press to reset the title and chapter number.
- 11 PLAY** Begins playback of a tape or DVD.
- 12 PAUSE** Press during play or record mode to pause the picture; press again to restart.
- 13 STOP** Stops the tape or DVD.
- 14 SKIP ►►** Skips forward to locate later DVD chapters.
- 15 FF** Fast-forwards the tape or DVD. (Press during play mode to view the picture moving rapidly forward.)
- 16 SKIP ◀◀** Skips back to beginning of current DVD chapter, or locates previous chapters.
- 17 REW** Rewinds/reverses the tape or DVD. (Press during play mode to view the picture moving rapidly backward.)
- 18 MENU** Accesses the menu in CABLE/SAT mode.
DVD MENU Accesses the DVD menu in DVD mode.
- 19 GUIDE** Displays the channel guide in CABLE/SAT mode.
SET UP Accesses a DVD's setup menu in AUX mode.
- 20 SUBTITLE** Accesses subtitles if available.
- 21 AUDIO** Accesses the Audio menu.
- 22 MODE SELECT** Switches set to "TV" to control the TV; "CABLE/SAT" to control a cable converter box or satellite receiver; "DVD" to control a DVD player, HTIB or BD; "AUX" to control a VCR.

Chapter 3: Using the remote control

Remote Control functional key chart

Note:

- “---” = key does not send a signal in that remote control mode.
- “←TV” = key will affect the TV, even though the remote control is in another mode.
- “*” = This function is available for REGZA-LINK® (see page 59).

REMOTE CONTROL KEY	Toshiba TV	CABLE	SAT (satellite)	DVD	AUX (VCR)
SLEEP	Sleep	← TV	← TV	← TV	← TV
PIC SIZE	Picture Size	← TV	← TV	← TV	← TV
FREEZE	FREEZE	← TV	← TV	← TV	← TV
POWER	Power	Power	Power	Power	Power
1-9	Digit 1-9	Digit 1-9	Digit 1-9	Digit 1-9	Digit 1-9
0	Digit 0	Digit 0	Digit 0	Digit 0	Digit 0
– /100/ +10	– (sub channel)	---	– (sub CH)	+10	100
INPUT	Input	← TV	← TV	← TV	← TV
WIDGETS	Net TV	---	---	---	---
MUTE	Mute	← TV	← TV	← TV	← TV
QUICK	Quick Menu	---	---	---	---
VOL + –	Volume Up/Down	← TV	← TV	← TV	← TV
CH▲▼	Channel Up/Down	Channel Up/ Down	Channel Up/ Down	---	Channel Up/ Down
FAV/TOP MENU	FAV Browser	---	---	Top Menu	---
CH RTN/DVD RTN	Last Channel	---	---	DVD Return	---
INFO	Info	---	Info	Display	---
OK	OK	---	Select, Enter	Enter	---
▲	Menu Up / FAV Up	---	Menu Up	Menu Up	---
▼	Menu Down / FAV Down	---	Menu Down	Menu Down	---
	Menu Left/ BACK C/B Back	---	Menu Left	Menu Left	---
	Menu Right/ NEXT C/B Next	---	Menu Right	Menu Right	---
RETURN	Return	---	---	---	---
EXIT/DVD CLEAR	Exit	---	Exit	DVD Clear	---
PAUSE/STEP	Pause*	---	---	Pause	Pause
PLAY	Play*	---	---	Play	Play
STOP	Stop*	---	---	Stop	Stop
SKIP◀◀	Skip REV* / DAY–	---	---	Skip REV	---
SKIP▶▶	Skip FWD* / DAY+	---	---	Skip FWD	---
REW	REW*	---	---	Rewind	Rewind
FF	FF*	---	---	Fast FWD	Fast FWD
MENU/DVD MENU	Menu	---	Menu	DVD Menu	---
GUIDE/SET UP	Guide	SAT Guide	---	Set up	---
MTS/AUDIO	MTS	---	---	Audio	---
CC/SUBTITLE	CC	---	---	Sub Title	---

Chapter 3: Using the remote control

REMOTE CONTROL KEY	Toshiba TV	CABLE	SAT (satellite)	DVD)	AUX (VCR)
RED	Red*	---	---	---	---
GREEN	Green*	---	---	---	---
YELLOW	Yellow*	---	---	---	---
BLUE	Blue*	---	---	---	---

Programming the remote control to control your other devices

Your Toshiba TV remote control is preprogrammed to operate most Toshiba devices. To program your TV remote control to operate a non-Toshiba device (or a Toshiba device that it is not preprogrammed to operate), follow the steps below. For details on using the remote control to operate the device, see page 26.

- 1 In the remote control code table (see pages 29-30), find the code for your device. If more than one code is listed, try each one separately until you find one that works.
- 2 Set the **MODE SELECT** switch to the type of device you are programming the remote control to operate — CABLE/ SAT (for a cable converter box or satellite receiver), DVD for a DVD player, HTIB [home theater in a box] or BD), or AXU (for a VCR or TV/VCR combo).
- 3 While holding down **INFO**, press the Channel Number buttons to enter the 3-digit code for your device.
- 4 To test the code, turn on the device, point the remote control at it, and press **POWER**. See notes below.
 - If the correct code was entered, the device will turn off.
 - If the device does not respond, repeat steps 1–4 using another code.
 - If the device does not respond to another code, you will need to use the remote control that came with the device.
- 5 Remember to set the **MODE SELECT** switch back to “TV” to control the TV.
- 6 For future reference, write down the code(s) you used:

DEVICE	CODE	DEVICE	CODE

Note:

- In addition to **POWER**, confirm that all necessary keys on the TV remote control operate your device. If some keys are not operational, repeat the device code setup using another code (if other codes are listed for your device). If, after trying all listed codes, the necessary keys do not operate your device, use the device's original remote control.
- Every time you change the batteries, you will need to reprogram the remote control.
- Some newer VCRs respond to either of two codes. These VCRs have a switch labeled “VCR1/VCR2.” If your VCR has this kind of switch and does not respond to the codes for your VCR brand, set the switch to the other position (“VCR1” or “VCR2”) and reprogram the remote control.

Chapter 3: Using the remote control

Remote control codes

In some cases you may not be able to operate your device with the TV remote control. Your other device may use a code that is not recognized by the TV remote control. If this happens, use the device's remote control.

Cable converter box

ABC	061, 062, 063, 082, 084, 087, 092, 096, 098
Archer	065, 092, 097, 099
Cableview	064, 094
Century	092
Citizen	090, 092, 097
Contec	083, 085, 086, 088, 093, 098
Diamond	093
GE	061, 062
Gemini	069, 070, 094
Hamlin	093
Hitachi	062, 095, 096
Jasco	097
Motorola/GI/	062, 069, 071, 082, 086,
Jerrold	089, 096, 107
Magnavox	072, 096
Memorex	092, 104
Multi Canal	090
Novavision	101
Panasonic	081, 083, 085
Philco	087
Philips	066, 067, 068, 070, 072, 073, 074, 075, 092
Pioneer	076, 077
Proscan	061, 062
Radio Shack	092, 097, 099
RCA	064, 081
Realistic	065
Recoton	102
Samsung	077, 090
Scientific Atlanta	063, 078, 079, 080, 088, 098, 101, 105
Sears	095
Signature	062
Signature 2000	096
Sprucer	081, 085
Starcom	069, 082, 087, 096, 103, 104
Stargate	069, 090
Sylvania	095, 100
TeleView	090
Texscan	100
Tocom	071, 084, 085
U. S. Electronics	087, 096, 098
United Cable	082
Universal	065, 092, 097, 099, 102, 103
Wards	096

Satellite receiver

Alphastar	038, 059
Chaparral	034
DISH Network	057
Drake	020, 040, 044, 046, 050, 053
Echostar	018, 041, 051

Express Vu	057
Fujitsu	027
GE	008, 009, 013
General	010, 011, 012, 022,
Instruments	023, 031, 049
Hitachi	033
Hughes	033
Hughes Network	
Systems	019
Intersat	048
Janeil	027
JVC	017, 057
Kenwood	029
Magnavox	060
Optimus	058
Pansat	036, 052
Primestar	015, 042
Proscan	008, 009, 013
Radio Shack	022, 023, 030
RCA	008, 009, 013, 016
Realistic	030
Samsung	059
Sony	014, 055
Star Choice	057, 106
Star Trak	025, 026, 037, 054
STS	024
Toshiba	000, 001, 002, 003, 004, 005, 006, 007, 020, 031, 056
	021, 028, 030, 032, 035, 039, 043, 045, 047, 058
Uniden	027
Zenith	027

TV/VCR Combo

Action	078
GE	059, 062
Goldstar	065
Panasonic	065
Precision	078
Quasar	065
Realistic	079
Sony	074
Toshiba	057
Zenith	065
Totevision	009, 010, 065

DVD/VCR Combo

Go Video	DVD=087, VCR=081
JVC	DVD=088, VCR=082
RCA	DVD=089, VCR=083
Samsung	DVD=090, VCR=084
Sanyo	DVD=091, VCR=085
Zenith	DVD=092, VCR=086

DVD player

Aiwa	006, 015
Apex	016, 017
BOSE	097
Broksonic	018

Clarion	019
Classic	020
Daewoo	021
Denon	022, 023, 024, 025
Emerson	026, 027
Fisher	028
Funai	027
GE	001, 029, 030
Go Video	087
GPX	031
Hitachi	005, 032, 033, 034, 035
JVC	003, 007, 036, 042, 088
Kenwood	037
Konka	008, 009
Magnavox	004, 038
Memorex	039
Mintek	040
NAD	026
Nakamichi	041
Norcent	043
Onkyo	044
Oritron	058
Panasonic	010, 045, 046, 047, 048, 049, 050
Philips	004, 051
Pioneer	052, 053, 054, 055
Proscan	001, 056
Qwestar	057, 058
RCA	001, 002, 059, 089
Sampo	060
Samsung	061, 062, 086, 090
Sansui	073
Sanyo	063, 091
Sharp	064, 067
Sherwood	074
Sony	011, 012, 065, 066, 068, 069, 070
Sylvania	027
Teac	071
Technics	072
Techwood	075
Toshiba	000, 013, 076, 077, 078
Yamaha	079, 080, 081
Zenith	014, 082, 092

Portable DVD player

Aiwa	093
Audiovox	094, 095
Panasonic	024, 096, 099
RCA	098

VCR

Admiral	049
Aiko	019
Aiwa	018
Akai	003, 004, 037, 038, 039, 058, 069
Audiovox	010
Bell & Howell	007, 068
Broksonic	008, 017
Calix	010
Carver	026
CCE	019
Citizen	009, 010, 011, 012, 013, 014, 015, 019, 057, 073
Colortyme	005
Craig	009, 010, 016, 061, 065, 079

(continued)






Chapter 3: Using the remote control

Curtis Mathes	001, 005, 009, 012, 014, 040, 048, 053, 056, 057	Orion	054, 057, 062, 065, 068, 072	Video Concepts	005, 006, 011, 012, 039, 053
Daewoo	011, 013, 015, 017, 018, 019, 057, 078	Panasonic	036, 045, 046, 057, 061, 072, 079	Wards	009, 010, 011, 016, 018, 020, 024, 025, 031, 035, 049, 051, 056, 057, 060, 065, 066, 079
Daytron	078	Pentax	012, 024, 025, 035, 042, 053, 063	White	073
Denon	063	Pentex Research	014	Westinghouse	
Dimensia	001, 048	Philco	026, 027, 063	XR-1000	018
Electrohome	010, 020, 065	Philips	026, 031, 044, 057	Yamaha	005, 006, 007, 014, 037, 053
Emerson	003, 008, 010, 011, 017, 018, 020, 028, 039, 054, 057, 062, 065, 068, 072	Pioneer	006, 024, 043, 055	Zenith	004, 032, 034, 041, 047, 069, 086
Fisher	007, 016, 021, 022, 023, 057, 064, 068, 070, 071, 079	Portland	012, 013, 015		
Fuji	004, 041	Proscan	001, 002, 048	HTIB	
Funai	018, 073	Proton	061	Lasonic	083
Garrard	018	Quasar	045	Panasonic	084
GE	001, 002, 009, 040, 042, 048, 056	Radio Shack	010, 031, 065	Venturer	085
Go Video	056, 059, 061, 081	Radio Shack/	007, 009, 010, 016, 018, 020, 021, 022, 031, 049	BD	
Goldstar	005, 010, 014, 054, 056, 065, 067	Realistic	010	Denon	135, 136, 137
Gradiente	018, 065	RCA	001, 002, 003, 009, 024, 025, 029, 035, 040, 042, 045, 048, 055, 056, 063, 071, 083	Hitachi	132, 133, 134
Harman Kardon	005	Realistic	007, 009, 010, 011, 016, 018, 020, 021, 022, 031, 049, 051, 056, 060, 065, 075, 079	Integra	114
Hitachi	024, 025, 035, 037, 042, 063, 070, 080	Ricoh	047	JVC	115, 116, 118, 119, 120, 121
JBL	076	Runco	034	LG	111, 112
JC Penney	005, 006, 007, 008, 009, 010, 023, 024, 025, 026, 035, 056, 061, 063, 065	Samsung	009, 011, 038, 056, 073, 084	Marantz(US)	127, 128
Jensen	024, 025, 037, 050	Sansui	006, 037, 043, 061	Mitsubishi	125, 126
JVC	005, 006, 007, 014, 037, 043, 055, 062, 063, 068, 082	Sanyo	007, 009, 016, 054, 064, 068, 071, 075, 079, 085	Onkyo	114
Kenwood	005, 006, 007, 012, 014, 037, 043, 050, 053, 068, 071	Scott	008, 011, 017, 028, 030, 057, 065, 072	Panasonic	102, 103, 104
Kodak	010	Sears	007, 010, 016, 021, 022, 023, 024, 025, 035, 053, 057, 063, 064, 065, 068, 071, 075, 079	Philips	105
LG	010	Sharp	013, 020, 031, 049, 051, 060, 066	Pioneer	106
Lloyds	053, 073, 079	Shintom	004, 025, 032, 061	Samsung	107
Logik	061	Signature	049	Sharp	129, 130, 131
LXI	010	Signature 2000	075	Sony	108, 109, 110, 117
Magnasonic	061, 065, 078	Singer	047, 061	Toshiba	113
Magnavox	026, 027, 034, 044, 057, 061, 072	Sony	004, 032, 033, 041, 052, 058, 070, 074, 076, 077, 080	Yamaha	122, 123, 124
Marantz	005, 006, 007, 012, 014, 026, 053, 067	STS	035		
Memorex	007, 009, 010, 016, 018, 034, 049, 063, 065, 066, 068, 075, 079	Sylvania	018, 026, 027, 028, 044, 072		
MGA	020, 028, 039	Symphonic	018, 050, 051, 053, 073, 079		
MGN	056	Tandy	007		
Minolta	024, 025, 035, 063	Tashiko	010		
Mitsubishi	020, 024, 025, 028, 039, 043, 065	Tatung	037		
Montgomery Ward	049	Teac	018, 029, 037		
Motorola	009, 046, 061	Technics	036		
MTC	009, 012, 018	Teknika	010, 018, 065		
Multitech	005, 006, 007, 012, 014, 037, 043, 053, 054, 067, 070	Toshiba	000, 011, 021, 023, 024, 028, 030, 039, 057, 074, 078, 079		
NEC	010, 049, 065	Totevision	009, 010, 065		
Nikko	010	Unitec	073		
Noblex	009	Unitech	009		
Optimus	031	Vector Research	005, 006, 011, 012, 053		
Optonica					


Chapter 4: Menu layout and navigation

Main menu layout

The tables below and on the next page provide a quick overview of your TV's menu system.
To open the main menus (illustrated below), press **(MENU)** on the remote control or TV control panel.

Icon	Item	Option
Picture 	Mode	→ Sports / Standard / Movie / PC / Preference
	Picture Settings	→ [Opens the Picture Settings menu]
	Noise Reduction	→ [Opens the Noise Reduction menu]
	Game Mode	→ Off / On
	Theater Settings	→ [Opens the Theater Settings menu]
Sound 	Digital Audio Selector	→ [Launches the temporary Audio Selector]
	Audio Settings	→ [Opens the Audio Settings menu]
	Advanced Audio Settings	→ [Opens the Advanced Audio Settings menu]
	Audio Setup	→ [Opens the Audio Setup menu]
Application 	Widgets	→ [Opens the Widgets menu]
	VUDU	→ [Opens the VUDU menu]
	Netflix	→ [Opens the Netflix menu]
	Media Player	→ [Opens the Media Player menu]
	REGZA-LINK Player Control	→ [Opens the REGZA-LINK Player Control]
	Sleep Timer	→ [Opens the Sleep Timer menu]
Preferences 	CC Selector	→ [Launches the temporary CC Selector]
	Base CC Mode	→ Off / CC1 / CC2 / CC3 / CC4 / T1 / T2 / T3 / T4
	Digital CC Settings	→ [Opens the Digital CC Setup menu]
	Input Labeling	→ [Opens the Input Labeling menu]
	AV Input	→ Auto / ColorStream HD / Video
	Menu Language	→ English / Français / Español
	Channel Browser Setup	→ [Opens the Channel Browser Setup menu]
	Energy Saving Settings	→ [Opens the Energy Saving Settings menu]
Locks 	Enable Rating Blocking	→ Off / On
	Edit Rating Limits	→ [Opens the Edit Rating Limits menu]
	Input Lock	→ Off / Video / Video+
	Network Lock	→ [Opens the Network Lock]
	Control Panel Lock	→ Off / On
	GameTimer	→ Off / 30 min / 60 min / 90 min / 120 min
	New PIN Code	→ [Opens the New PIN Code entry screen]



Chapter 4: Menu layout and navigation

Icon	Item	Option
Setup 	Installation	→ [Opens the Installation menu]
	REGZA-LINK Setup	→ Enable REGZA-LINK / TV Auto Input Switch / TV Auto Power / Device Auto Standby / Speaker Preference
	Network Setup	→ [Opens the Network Setup menu]
	VUDU Deactivation	→ [Opens the VUDU Deactivation menu]
	Netflix Deactivation	→ [Opens the Netflix Deactivation menu]
	PC Settings	→ [Opens the PC Settings menu]
	Quick Setup	→ [Opens the Quick Setup menu]
	Software Upgrade	→ [Opens the Software Upgrade menu]

Setup/Installation menu layout

The **Installation** menu contains the **Terrestrial** and **System Status** menus.

To open the **Installation** menu (illustrated below), press **(MENU)** on the remote control or TV control panel, open the **Setup** menu, select **Installation**, and press **(OK)**.

Icon	Item	Option
Terrestrial 	Input Configuration	→ [Opens the Input Configuration menu]
	Channel Program	→ [Start] → [Scans for new channels on ANT/CABLE]
	Channel Options	→ [Opens the Skip / Lock Channel menu]
	Channel Tuning Mode	→ Standard / Auto / Digital
	Time Zone	→ Eastern / Newfoundland / Atlantic / Hawaii / Alaska / Pacific / Mountain / Central
	Signal Meter	→ [Opens the Signal Meter menu]
System Status 	System Information	→ [Opens the System Information screen]
	Connective Information	→ [Opens the Connective Information screen]

Chapter 4: Menu layout and navigation

Quick menu

Quick menu helps you access some options quickly.

Press **QUICK** to display the Quick menu and press **▲** or **▼** to select the option.

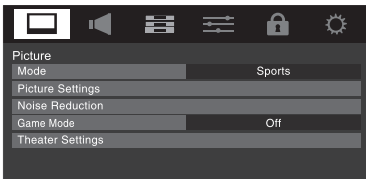
Note: Quick menu items are different depending on the current mode.

Quick menu Item	Option
Picture Mode	→ Sports / Standard / Movie / PC / Preference
Picture Size	→ Natural / TheaterWide 1 / TheaterWide 2 / TheaterWide 3 / Full / 4:3 HD / Native / Dot by Dot
Media Player	→ [Opens the Media Player menu]
Sort	→ Title / New / Old
Sound	→ [Opens the Audio Settings menu]
Interval Time	→ 3 sec / 5 sec / 10 sec / 15 sec / 30 sec / 60 sec / 90 sec
Repeat	→ On / Off
Background Music	→ [Opens the Music menu of Media Player]
REGZA-LINK Player Control	→ [Opens the REGZA-LINK Player Control menu]
Sleep Timer	→ [Opens the Sleep Timer menu]
Device Information	→ [Opens the Device Information menu]
Wireless Information	→ [Opens the Wireless Information menu]

Navigating the menu system

You can use the buttons on the remote control or TV control panel to access and navigate your TV's on-screen menu system.

- Press **MENU** to open the menu system.



- When a menu is open, use the up/down/left/right arrow buttons (**▲▼◀▶**) on the remote control or TV control panel to move in the corresponding direction in the menu.
- Press **OK** to save your menu settings or select a highlighted item. (A highlighted menu item appears in a different color in the menu.)
- All menus close automatically if you do not make a selection within 60 seconds, except the signal meter menu, which closes automatically after about 5 minutes.
- To close a menu instantly, press **EXIT**.

Note:

The menu background may sometimes appear black, depending on the signal the TV is receiving. This is not a sign of malfunction.

Chapter 5: Setting up your TV

Initial Setup

When you first turn on or reset the TV, the Initial Setup window will appear.

- 1 In the **Menu Language** field, press ◀ or ▶ to select your preferred language.
- 2 Press ◀ or ▶ to select **Time Zone** and set your desired time zone with ◀ or ▶ and press **OK**.
- 3 Next, the **Location** setting window will appear. For normal home use, press ◀ or ▶ to select **Home** and press **OK**.
- 4 Next, **ANT/CABLE In** setup window will appear. Press ◀ or ▶ to select the input source (**Cable** or **Antenna**) for the **ANT/CABLE** input on the TV.
- 5 If you select **Antenna**, the **Channel Tuning Mode** setup window will appear. To tune only digital channels, select **Digital**. To tune digital channels preferentially over analog when entering channel number directly, select **Auto**. For normal tuning, select **Standard**. Press **OK** to continue to Auto Tuning.
- 6 Press **OK** to select **Start Scan** and continue with the Auto Tuning.

You can stop the Initial Setup with **EXIT**. However if you do not finish the entire Initial Setup process, the Initial Setup window will appear every time you turn on the TV.

Quick Setup from the SETUP menu

You can conveniently change various basic TV settings from the Quick Setup item located under the **SETUP** menu.

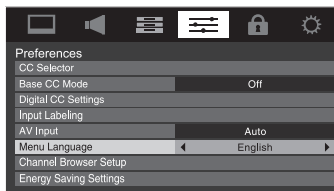
- 1 Press **MENU** and open the **Setup** menu.
- 2 Press ▲ or ▼ to select **Quick Setup** and press **OK**.
- 3 A confirmation message will appear on the screen, press ◀ or ▶ to select **Yes** and press **OK**.
- 4 Other procedures are the same as **Initial Setup**.

Selecting the menu language

You can choose from three different languages (English, French and Spanish) for the on-screen display of menus and messages.

To select the menu language:

- 1 Press **MENU** and open the **Preferences** menu, highlight **Menu Language**.
- 2 Press ◀ or ▶ to select your preferred menu language.

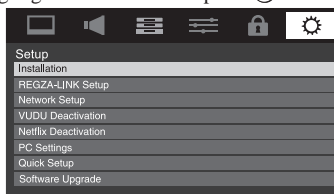


- 3 Press **EXIT** to close the **Preferences** menu.

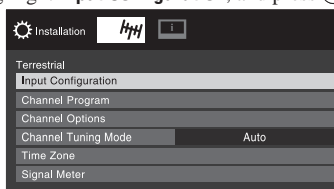
Configuring the antenna input source for the ANT/CABLE terminal

To configure the ANT/CABLE input source:

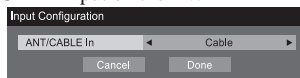
- 1 Press **MENU** and open the **Setup** menu.
- 2 Highlight **Installation** and press **OK**.



- 3 (A new set of **Installation** menu icons will appear, as shown below.) Open the **Terrestrial** menu, highlight **Input Configuration**, and press **OK**.



- 4 Highlight **ANT/CABLE In** and press ◀ or ▶ to select the input source (**Cable** or **Antenna**) for the **ANT/CABLE** input on the TV.



- 5 To save your new settings, highlight **Done** and press **OK**. To revert to your original settings, highlight **Cancel** and press **OK**.

Programming channels into the TV's channel memory

When you press **CH** or **CH** on the remote control or TV control panel, your TV will stop only on the channels you programmed into the TV's channel memory.

Follow the steps below to program channels into the TV's channel memory.

(continued)

Chapter 5: Setting up your TV

Programming channels automatically

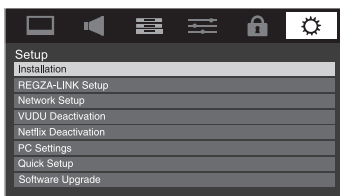
Your TV can automatically detect all active channels in your area and store them in its memory. After the channels are programmed automatically, you can manually add or erase individual channels in the channel memory.

Note:

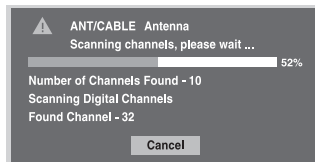
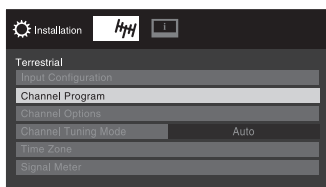
- You must configure the ANT/CABLE input source before programming channels (see page 34).
- The automatic channel programming process will erase channels that were previously programmed into the TV's memory.
- To tune the TV to a channel not programmed in the channel memory, you must use the Channel Number buttons on the remote control.
- Programming channels when the ANT/CABLE input is configured for **Cable** will take substantially longer than when the antenna input is configured for **Antenna**. This is normal; however, once channel programming is finished, you should not have to repeat the programming process again unless your Cable TV service lineup changes significantly.

To program channels automatically:

- 1 Configure the antenna input source, if you have not already done so (see page 34).
- 2 Press **MENU** and open the **Setup** menu.
- 3 Highlight **Installation** and press **OK**.



- 4 (A new set of **Installation** menu icons will appear, as shown below.) Open the **Terrestrial** menu, highlight **Channel Program** to bring up the **Start Scan**, and press **OK** again to begin channel programming.



The TV will automatically cycle through all the antenna channels, and store all active channels in the channel memory. While the TV is cycling through the channels, the message “Scanning channels, please wait” appears (as shown above).

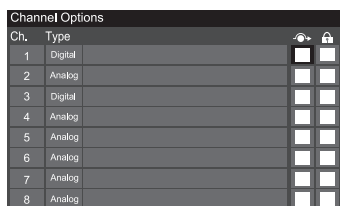
- 5 To cancel channel programming, press **EXIT** on the remote control (or highlight **Cancel** in the on-screen display and press **OK**).

When channel programming is finished, press **CH** or **CH** to view the programmed channels.

Setting channel skip

To prevent certain channels from being viewed, channel positions can be skipped.

- 1 From the **Setup** menu, highlight **Installation** and press **OK**.
- 2 Press **▲** or **▼** to select **Channel Options** and press **OK**. The list of channels will appear.



- 3 Press **▲** or **▼** to select a channel position to be skipped and press **OK**. A tick will appear in the box. To remove the tick, press **OK** again.

To add a channel to the channel memory:

Highlight the checked box next to the channel number you want to add, and then press **OK** to remove the tick.

To manually add digital subchannels on a physical channel:



Use the Channel Numbers and the Dash (**100**) on the remote control to enter the channel number (for example, 56-1).

If the channel is found, the number will be added to the list and the box will be unchecked.

If the channel is not found, a message will appear.



(continued)

Chapter 5: Setting up your TV

Note: Skipped channels cannot be selected with  or ; however, they can still be accessed using the number keys on the remote control.

Setting AV Input mode







This setting determines the configuration of the shared AV input on your TV. You can set this input for either **ColorStream HD** or **Video**.

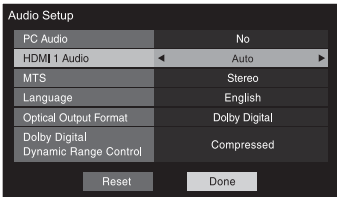
- 1 From the **Preferences** menu, highlight **AV Input**.
- 2 Press  or  to select your desired setting.

Note: If you select the wrong setting, picture will have no color or be fuzzy.


Setting the HDMI® audio mode

To set the HDMI audio mode:

- 1 Press  and open the **Sound** menu.
- 2 Highlight **Audio Setup** and press .
- 3 Press  or  to select **HDMI 1 Audio** and then press  or  to select the HDMI 1 audio mode (**Auto**, **Digital**, or **Analog**). (**Auto** is the recommended mode.) See “Connecting an HDMI or DVI device to the HDMI input” (page 18).



Mode	Description
Auto	When viewing the HDMI 1 input, if digital audio from the HDMI input is available, it will be output. If not, the TV will automatically detect and output analog audio from the PC Audio input.
Digital	When viewing the HDMI 1 input, digital audio from the HDMI input will be output.
Analog	When viewing the HDMI 1 input, analog audio from the PC Audio input will be output.








- 4 To save your settings, highlight **Done** and press .

Note: Because the PC and HDMI-1 inputs share the same set of analog audio inputs, the **PC Audio** menu setting influences the **HDMI 1 Audio** menu setting. If **PC Audio** is set to “No,” the **HDMI 1 Audio** setting changes to “Auto.” If **PC Audio** is set to “Yes,” the **HDMI 1 Audio** setting is set to “Digital” and is grayed out in the menu. (Also see item 3 on page 14 and “Setting the PC Audio” on page 54.)

Viewing the digital signal meter

You can view the digital signal meter in the ANT/CABLE digital TV input source only.

To view the digital signal meter:

- 1 Press  and open the **Setup** menu.
- 2 Highlight **Installation** and press .
- 3 A new set of Installation menu icons will appear. Open the **Terrestrial** menu, highlight **Signal Meter**, and press .
- 4 Press     to select the antenna input and digital channel whose signal you want to check.

Note:

- The physical digital channel number listed in the Signal Meter screen may not correspond to a virtual TV channel number. Contact your local broadcasters to obtain the RF channel numbers for your local digital stations.
- The signal strength does not change between virtual channels on the same physical channel.

To close the screen and return to the Terrestrial menu:

Highlight **Done** and press .

To return to normal viewing:

Press .

(continued)

Setting the time zone

The Time Zone setup will allow you to specify the correct time zone for your region. This feature will allow the TV status information to show the correct time zone information (see page 61).

To set the time zone:

- 1 From the **Setup** menu, highlight **Installation** and press **OK**. A new set of Installation menu icons will appear.
- 2 Highlight **Time Zone**, and press **OK**.
- 3 Press **◀** or **▶** to select the region, highlight **Done**, and then press **OK**.

After the time zone has been set, you will be asked to set the current Daylight Saving Time status.

To set the Daylight Saving Time status:

- 1 Press **◀** or **▶** to select **Yes** or **No**, highlight **Done**, and then press **OK**.

Viewing the system status

To view the system information:

- 1 Press **MENU** and open the **Setup** menu.
- 2 Highlight **Installation** and press **OK**.
- 3 A new set of Installation menu icons will appear. Open the **System Status** menu, highlight **System Information**, and press **OK**.
- 4 Press **◀▶** to scroll through the menu bar to select the **Factory Defaults** or **Support Information** and view the related information.

To close the screen and return to the Installation menu:

Highlight **Done** and press **OK**.

To return to normal viewing:

Press **EXIT**.

To view the Connective information:

- 1 Press **MENU** and open the **Setup** menu.
- 2 Highlight **Installation** and press **OK**.
- 3 A new set of Installation menu icons will appear. Open the **System Status** menu, highlight **Connective information**, and press **OK**.

To close the screen and return to the Installation menu:

Press **RETURN**.

To return to normal viewing:

Press **EXIT**.

Reset Factory Defaults

To reset all settings and channels to their factory default values:

- 1 Press **MENU** and open the **Setup** menu.
- 2 Highlight **Installation** and press **OK**. A new set of Installation menu icons will appear.
- 3 Open the **System Status** menu, highlight **System Information**, and press **OK**.
- 4 Press **◀▶** to scroll through the menu bar to select **Factory Defaults**.
- 5 Highlight **Yes** and press **OK**.
- 6 (If PIN code has been set, enter your PIN code. Press **◀** or **▶** to select **Done** and press **OK**.) A warning message will appear, select **Yes** and press **OK**, the TV will turn off automatically after a few seconds. After the TV turns off, unplug the TV power cord and then plug it in again to complete the reset process.

To cancel the reset:

Select **No** and press **OK** in step 5 above.

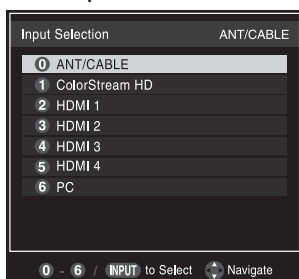
Chapter 6: Using the TV's features

Selecting the video input source to view

To select the video input source to view:

- 1 Press **(INPUT)** on the remote control or TV control panel.
- 2 And then either:
 - a) Press 0–6; or
 - b) Repeatedly press **▲▼** on the remote control and then press **(OK)** to change the input; or
 - c) Repeatedly press **(INPUT)** on the remote control or TV control panel to change the input.

The current signal source displays in the top right corner of the **Input Selection** screen.



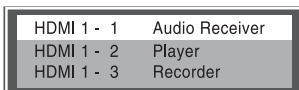
Note:

- You can label the video input sources according to the specific devices you have connected to the TV (see “Labeling the video input sources” at right).
- Sources can be “hidden” (see “Labeling the video input sources” at right).
- “No Video Signal” will appear randomly on the screen if no signal is received in video input mode.
- If CEC device is connected to a HDMI input, the REGZA-LINK icon will appear.

If a REGZA-LINK device with HDMI switching capability (e.g. Audio Receiver) is connected to the HDMI input:

Press **(INPUT)** on the remote or TV control panel repeatedly to highlight **HDMI 1**, **HDMI 2**, **HDMI 3** or **HDMI 4**.

If the connected CEC device has any connected devices, a separate device selection popup window will appear.



Press **(INPUT)** repeatedly to highlight the desired input source, and then press **(EXIT)**.

Note:

- When selecting REGZA-LINK input sources from the popup window using **(INPUT)**, some REGZA-LINK devices may automatically turn on.
- When selecting input sources using **▲▼**, you will have to press **(OK)** to actually select a particular device from the popup window.

Labeling the video input sources

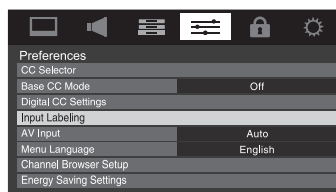
You can label each video input source according to the type of device you connected to each source, from the following preset list of labels:

- -- (default label)
- Audio Receiver
- Cable
- Compact Disc
- DTV
- DVD
- Game Console
- HDMI Switch (HDMI inputs only)
- Laser Disc
- Satellite/DSS
- VCR
- Video Recorder
- Hide (to hide an unused input in the **Input Selection** screen and in the Channel Browser™ Inputs list)

Note: If you select PC in the **Input Selection** screen, you can choose only “--”, “Game Console”, or “Hide” as the label.

To label the video input sources:

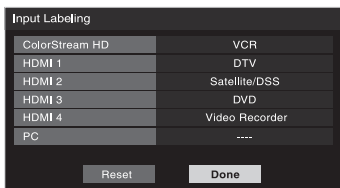
- 1 Press **(MENU)** and open the **Preferences** menu.
- 2 Highlight **Input Labeling** and press **(OK)**.



(continued)

Chapter 6: Using the TV's features

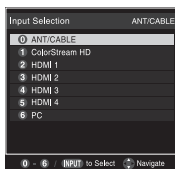
- Press **▲** or **▼** to highlight the video source you want to label.



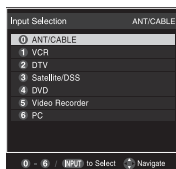
- Press **◀** or **▶** to select the desired label for that input source. If a particular input is not used, you can select **Hide** as the label, which will cause that input to be “grayed out” in the Input Selection screen and skipped over when you press **(INPUT)** on the remote control.
- To save the new input labels, highlight **Done** and press **(OK)**.
To revert to the factory default labels, highlight **Reset** and press **(OK)**.

Input labeling example:

The screen below left shows the default **Input Selection** screen (with none of the inputs labeled as a specific device). The screen below right is an example of how you could label the inputs if you connected a VCR to ColorStream HD, a DTV set-top box to HDMI 1, and a Satellite/DSS set-top box to HDMI 2, and a DVD player to HDMI 3, and a Video Recorder to HDMI 4.



Input Selection screen with no inputs labeled.



Input Selection screen with all inputs labeled.

To clear the input labels:

- Press **(MENU)** and open the **Preferences** menu.
- Highlight **Input Labeling** and press **(OK)**.
- Highlight **Reset** and press **(OK)**.

Tuning channels

Tuning channels using the Channel Browser™

The Channel Browser™ provides an easy navigation interface for all your channels and inputs. This feature allows you to:

- Navigate the contents of all of your inputs.
- Keep a list of your favorite channels (see “Favorites Browser,” below).
- Keep a history of the last 32 channels or inputs viewed.
- Quickly surf and tune your recently viewed channels/inputs from the Channel Browser™ History List (illustrated on the next page).
- Surf via Browse mode (to immediately tune channels as you highlight them in the Channel Browser™) or Select mode (to surf over channels in the Channel Browser™ before you select one to tune).
- Quickly change inputs from the Inputs List.
- Quickly select REGZA-LINK devices from the REGZA-LINK List.

Favorites Browser

The Favorites Browser allows you to quickly set up a favorite channels/inputs list that is integrated into the Channel Browser™.

To add a favorite channel/input:

- Tune to the channel or input.
- Press and hold **(FAV)** for 3 seconds.

Note: Additions are added to the beginning of the Favorites list on the left side of the Channel Browser™.

To delete a favorite channel/input:

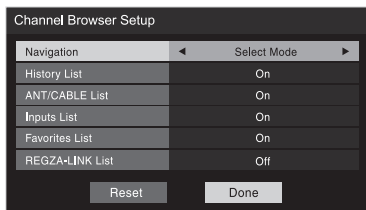
- Press **(FAV)** to open the Favorites browser list.
- Highlight the channel or input to delete by pressing **(BACK)** or **(NEXT)**.
- Press and hold **(100)** for 3 seconds. The channel/input will be removed from the Favorites list.

To set up the Channel Browser™:

- From the **Preferences** menu, highlight **Channel Browser Setup** and press **(OK)**.
- Press **▲** to highlight **Navigation**, and then press **◀** or **▶** to select either **Browse Mode** or **Select Mode**.

(continued)

Chapter 6: Using the TV's features



- 3 Press ▼ to highlight **History List**, and then press ◀ or ▶ to select the setting you prefer: either **On**, or **Off**.

Note: *History List* will be cleared every time the TV is powered off.

- 4 Press ▼ to highlight **ANT/CABLE List**, and then press ◀ or ▶ to select **On** or **Off**.
- 5 Press ▼ to highlight **Inputs List**, and then press ◀ or ▶ to select **On** or **Off**.
- 6 Press ▼ to highlight **Favorites List**, then press ◀ or ▶ to select **On** or **Off**.
- 7 Press ▼ to highlight **REGZA-LINK List**, and then press ◀ or ▶ to select **On** or **Off**.

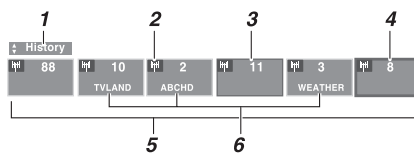
Note: *REGZA-LINK List* will be automatically grayed out and set to **Off** when **Enable REGZA-LINK** is switched to **Off**. (See "To set the REGZA-LINK Setup" on page 60 for more information.)

- 8 To save your entries, highlight **Done** and press (OK). To return to factory defaults, highlight **Reset** and press (OK).

To open the Channel Browser™:

- Press (BACK) or (NEXT) on the remote control.
- Press (BACK) to surf backward through the previously tuned 32 channels in the History list, the channels in the ANT/ CABLE channel list, the inputs in the Inputs list, the REGZA-LINK devices in the REGZA-LINK list, or the favorite channels/inputs in the Favorites list.
- Press (NEXT) to surf forward through the channel History, the ANT/CABLE channel list, the Inputs list, the REGZA-LINK list, or the favorite channels/inputs in the Favorites list.

Elements of the Channel Browser™



- 1 Current list (**History**, **ANT/CABLE**, **Inputs**, **Favorites**, or **REGZA-LINK**)
- 2 Input type
- 3 Channel or input currently being viewed
- 4 Channel or input that is currently highlighted in the browser
- 5 Channels stored in the History List
- 6 Channel labels

To toggle among the available lists:

After opening the Channel Browser™, press ▲ or ▼ to toggle among **History**, **ANT/CABLE**, **Inputs**, **Favorites**, and **REGZA-LINK**.

Note:

- The Channel Browser™ opens in **History List** by default. Once another list has been selected, the Channel Browser™ will open in the last selected list.
- If all lists are turned off, pressing (BACK) or (NEXT) will not display the Channel Browser™. If **Favorites List** is turned off, (FAV) will have no effect.
- Pressing (FAV) will bring up the Channel Browser™ Favorites list regardless of the last selected list in the Channel Browser™.

To tune to a channel or input in Browse mode:

- 1 While watching TV, press (BACK) or (NEXT) to open the Channel Browser™ and surf back to a previous item or surf forward to the next item in the list. In **Browse** mode, when you stop on an item in the Channel Browser™, it will be highlighted and the TV will automatically tune to the channel or input.
- 2 Press (EXIT) to close the Channel Browser™.

(continued)

Chapter 6: Using the TV's features

To tune to a channel or input in Select mode:

- 1 While watching TV, press or to open the Channel Browser™ and surf back to a previous item or forward to the next item in the list.
In **Select** mode, when you stop on an item in the Channel Browser™, it will be highlighted but you must press to tune the TV to the highlighted item.
- 2 Press to tune the TV to the highlighted item.
- 3 Press to close the Channel Browser™.

Adding and clearing channels and inputs in the History List

Adding channels and inputs to the History List:

As a channel or input is tuned, the Channel Browser™ adds it to the History List and displays it on the “right side” of the Channel Browser™. Previously tuned channels/inputs are “shifted” to the left, eventually moving off the left side. Press to surf backward through the previously tuned channels/inputs. Any channel or input that is tuned repeatedly will not be repeated in the History List, but instead is moved to the end of the list on the right side of the Channel Browser™.

The Channel Browser™ will store the following channels:

- All channels that are tuned using the numeric buttons on the remote control.
- All channels that are tuned using or on the remote control.

Note: Whenever an item is selected that cannot be tuned (for various reasons), the TV will automatically tune to the previously viewed channel or input.

Clearing channels from the History List:

- Reconfiguring the **ANT/CABLE** input will clear the History List.

Note: See page 34 for details on configuring the antenna input.

- Once 32 channels or inputs are stored in the History List, the oldest item will be removed from the list when a new channel or input is tuned.
- Turning off the TV will clear the History List.

Setting the Channel Tuning Mode

This feature allows you to choose how tuning will be handled for analog and digital channels when the TV is in Antenna mode.

Note: To use this feature, the **Input Configuration** must be set to **Antenna** (see page 34).

The channel tuning mode has three options.

Mode	Description
Standard	Both analog and digital channels can be tuned normally
Auto (default)	Digital channels will have priority when manually entering a channel number using the Channel Number (0-9) on the remote control, analog channels can still be tuned by / , if available
Digital	Only digital channels can be tuned

Note: Digital mode will be most useful after analog channels are shut down by the government in 2009.

To set the Channel Tuning Mode:

- 1 From the **Setup** menu, highlight **Installation** and press . A new set of **Installation** menu icons will appear.
- 2 Open the **Terrestrial** menu, highlight **Channel Tuning Mode**, and then press to select your desired mode.

Note:

- The Channel Options windows as well as the Channel Browser ANT/CABLE list will be updated automatically when you change the mode. Also, the History List will be cleared, but the Favorites List will be saved.
- Even if the Channel Tuning Mode is set to **Digital**, analog channel 3 will still be the default channel to prevent the initial case where no digital channels have been found in prior channel scans. (Channel Options will not have anything listed until a scan is done.)

Tuning to the next programmed channel

To tune to the next programmed channel:

Press **CH** or **CH** on the remote control or TV control panel.

Note: This feature will not work unless you program channels into the TV's channel memory (see pages 34-35).

Tuning to a specific channel (programmed or unprogrammed)

Tuning analog channels:

Press the Channel Number (0-9) on the remote control. For example, to select channel 125, press 1, 2, 5, then **OK**.

Tuning digital channels:

Press the Channel Number (0-9) on the remote control, followed by the dash (**100**) button and then the sub-channel number. For example, to select digital channel 125-1, press 1, 2, 5, -, 1, then **OK**.

Note: If a digital channel is not programmed—either through the automatic channel scan (see pages 34-35) or the Channel add function (see page 35)—you will have to tune the RF channel using the Channel Number and dash (**100**) on the remote control.

Switching between two channels using Channel Return

The Channel Return feature allows you to switch between two channels without entering an actual channel number each time.

- 1 Select the first channel you want to view.
- 2 Select a second channel using the Channel Number buttons (and the dash (**100**) button if selecting a digital channel).
- 3 Press **CH** on the remote control. The previous channel will display. Each time you press **CH**, the TV will switch back and forth between the last two channels that were tuned.

Note: If you press **CH** from a non-antenna input, the TV will return to the last-viewed input.

Switching between two channels using SurfLock™

The SurfLock™ feature temporarily “memorizes” one channel to the **SL** button, so you can return to that channel quickly from any other channel by pressing **SL**. To memorize a channel to the **SL** button:

- 1 Tune the TV to the channel you want to program into the **SL** button.
- 2 Press and hold **SL** for about 2 seconds until the message “Memorized” appears on-screen. The channel has been programmed to the **SL** button.
- 3 You can then change channels repeatedly, and when you press **SL**, the memorized channel will be tuned.

The TV will return to the memorized channel one time only. Once you press **SL** and then change channels again, the CH RTN memory will be cleared and the button will function as Channel Return, by switching back and forth between the last two channels that are tuned. This feature also works for external inputs.

Selecting the picture size

You can view many program formats in a variety of picture sizes—**Natural**, **TheaterWide 1**, **TheaterWide 2**, **TheaterWide 3**, **Full**, **4:3 HD**, **Native**, and **Dot by Dot** (available in PC Mode Only).

Note: The “picture size” illustrations are examples only. The format of the image (in any of the picture sizes) will vary depending on the format of the signal you are currently watching. Select the picture size that displays the current program the way that looks best to you.

You can save separate picture size preferences for each input on your TV.

To select the picture size using the remote control:

- 1 Press **PIC SIZE** on the remote control.
- 2 While the **Picture Size** screen is open, you can do one of the following to select the desired picture size:
 - Repeatedly press **PIC SIZE**.
 - Press the corresponding Number button (0-6) while the **Picture Size** screen is open.
 - Press **▲** or **▼** while the **Picture Size** screen is open.

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To select the picture size using the menus:

- 1 Select **Picture Size** in the **Theater Settings** menu.
- 2 Press ◀ or ▶ to select the desired picture size setting.
- 3 Highlight **Done** and press (OK).

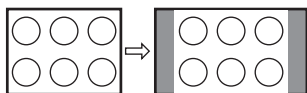
Note: Some of the picture sizes may not be available depending on the receiving signal format (those will be "grayed out" in the **Picture Size** screen).

Using these functions to change the picture size (i.e., changing the height/ width ratio) for any purpose other than your private viewing may be prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.

Note: If you select one of the TheaterWide® picture sizes, the top and bottom edges of the picture (including subtitles or captions) may be hidden. To view the hidden edges, either scroll the picture (**TheaterWide 2** and **3** only) or try viewing the program in **Full** or **Natural** picture size.

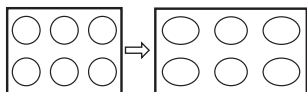
Picture Size

Natural



Some program formats will display with sidebars and/or bars at the top and bottom.

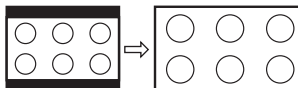
TheaterWide 1 (for 4:3 format programs)



The center of the picture remains close to its original proportion, but the left and right edges are stretched wider to fill the screen.

Picture Size

TheaterWide 2 (for letter box programs)



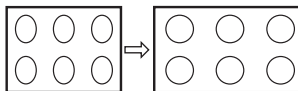
The top and bottom edges of the picture may be hidden*.

TheaterWide 3 (for letter box programs with subtitles)



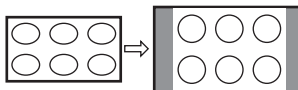
The top and bottom edges are hidden*.

Full (for 16:9 [480i, 480p] source programs only)



- If receiving a squeezed 4:3 format program, the picture is stretched wider to fill the width of the screen, but not stretched taller.
- None of the picture is hidden.

4:3 HD (for 720p, 1080i, and 1080p program sources only)



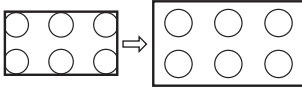
Picture is not distorted from original size.

(continued)

Chapter 6: Using the TV's features

Picture Size

Native (for 480i (HDMI), 480p (HDMI), 720p, 1080i, and 1080p signal programs)

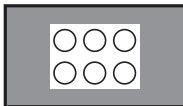


- If receiving a 480i (HDMI), 480p (HDMI), 720p, 1080i, or 1080p signal program, Native mode scales the video to display the entire picture within the borders of the screen (i.e. no overscanning).
- This is especially useful for external HD sources such as DVHS movies, or PC graphics.

Note:

- This mode is supported only for HDMI (1080p, 1080i, 720p, 480p, and 480i), ColorStream (1080i and 720p), and ANT / CABLE (digital) inputs (1080p, 1080i, and 720p).
- Depending on the input signals, the border of the picture may be hidden, displayed in black, or noisy.

Dot by Dot (for VGA, SVGA, XGA, WXGA, and SXGA sources only)



The “Dot by Dot” picture is non-scaling display. Depending on the input signal formats, picture is displayed with sidebars and/or bars at the top and bottom. (Example: VGA input source)

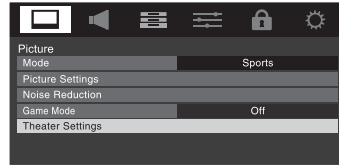
* To view the hidden areas (such as subtitles or captions), see below “Scrolling the TheaterWide® picture”.

Scrolling the TheaterWide® picture (TheaterWide 2 and 3 only)

You can set separate scroll settings for the TheaterWide 2 and TheaterWide 3 modes for each input.

To set the scroll settings:

- 1 Press **(MENU)** and open the **Picture** menu.
- 2 Highlight **Theater Settings** and press **(OK)**.



- 3 In the **Picture Size** field, select either **TheaterWide 2** or **TheaterWide 3** (you cannot scroll in any other mode).
- 4 Press **▼** to highlight the **Picture Scroll** field.
- 5 Press **◀** or **▶** to scroll the picture up and down as needed.
- 6 To save the new settings, highlight **Done** and press **(OK)**. To revert to the factory defaults, highlight **Reset** and press **(OK)**.

Note: When receiving a signal at 480i resolution, the picture scroll function may have limited adjustment range.

Using the auto aspect ratio feature

When the auto aspect ratio feature is set to **On**, the TV will automatically select the picture size when one of the following input sources is received:

- A 480i, 480p, 720p, 1080i digital signal from the **ANT/CABLE** input
- A 480i signal from the **VIDEO** or **ColorStream HD** input
- A 480i, 480p, 720p, 1080i, 1080p, or VGA (60Hz) signal from the **HDMI 1/2/3/4** input

Aspect ratio of signal source	Automatic aspect size (automatically selected when Auto Aspect is On)
4:3 normal	Natural (with sidebars)
4:3 letter box	TheaterWide 2
16:9 full	Full
Not defined (no ID-1 data or HDMI aspect data)	The current picture size you set under “Selecting the picture size” on page 42.

Note: The auto aspect ratio feature is not applicable to PC input.

(continued)

Chapter 6: Using the TV's features

To turn on the auto aspect ratio feature:



- 1 Press **(MENU)** and open the **Picture** menu.
- 2 Highlight **Theater Settings** and press **(OK)**.
- 3 In the **Auto Aspect Ratio** field, select **On**.
- 4 To save the new settings, highlight **Done** and press **(OK)**. To revert to the factory defaults, highlight **Reset** and press **(OK)**.

To turn off the auto aspect ratio feature:

Select **Off** in step 3 above.

Using the FREEZE feature

To use the FREEZE feature:

- 1 When viewing the TV, press **FREEZE**  to make the picture a still picture.
- 2 To return to the moving picture, press **FREEZE**  again (or any other button).

Note: If the TV is left in *FREEZE* mode for more than 15 minutes, the *FREEZE* mode will automatically be released and the TV will return to moving picture.

Using the FREEZE function for any purpose other than your private viewing may be prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.

Adjusting the picture

Selecting the picture mode

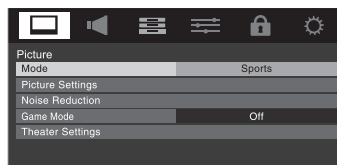
You can select your desired picture settings from four different modes, as described below.

Mode	Picture Quality
Sports	Bright and dynamic picture (factory setting)
Standard	Standard picture settings (factory setting)
Movie	Lower contrast for darkened room (factory setting)
PC	Designed for viewing of PC tables and documents
Preference	Your personal preferences

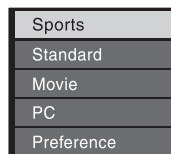
Note: *PC* mode is available for HDMI and PC inputs only (grayed out for other input sources).

To select the picture mode using the menu system:

- 1 Press **(MENU)** and open the **Picture** menu.
- 2 Highlight **Mode** and press **(OK)**.



- 3 Press **▲** or **▼** to select the picture mode you prefer and press **(OK)**.



(continued)

Adjusting the picture quality

You can adjust the picture quality (Contrast, Backlight, DynaLight™, Brightness, Color, Tint, and Sharpness) to your personal preferences.

Selection	Pressing ◀	Pressing ▶
Contrast	lower	higher
Backlight*	darker	lighter
DynaLight**	On/Off	On/Off
Brightness	darker	lighter
Color	paler	deeper
Tint	reddish	greenish
Sharpness	softer	sharper

* Backlight

This feature adjusts the brightness of the entire screen. When in video mode and no signal is input, this will automatically be set to 0. (Settings are stored in memory.)

**DynaLight

This function automatically strengthens the black coloring of dark areas in the video according to the level of darkness.

To adjust the picture quality:

- 1 Press **(MENU)** and open the **Picture** menu.
- 2 Highlight **Picture Settings** and press **(OK)**.
- 3 Press **▲** or **▼** to select the picture quality you want to adjust (**Contrast**, **Backlight**, **DynaLight**, **Brightness**, **Color**, **Tint**, or **Sharpness**), and then press **◀** or **▶** to adjust the setting, as described in the table above.
- 4 To save the new settings, highlight **Done** and press **(OK)**. You can use any of the picture modes (⌂ “Selecting the picture mode”) as a starting point for adjusting the picture settings.
To revert back to the base mode that you began adjusting the picture settings from, highlight **Reset** and press **(OK)**.

The picture qualities you adjusted are automatically saved in the **Preference** mode (⌂ “Selecting the picture mode”) until **Reset** is selected.

Using the closed caption mode

Base closed captions

The closed caption mode has two options:

- **Captions**—An on-screen display of the dialogue, narration, and sound effects of TV programs and videos that are closed captioned (usually marked “CC” in program guides).
- **Text**—An on-screen display of information not related to the current program, such as weather or stock data (when provided by individual stations).

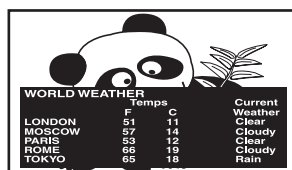
To view captions or text:

- 1 Press **(MENU)** and open the **Preferences** menu, highlight **Base CC Mode**.
 - 2 Press **◀** or **▶** to select the desired closed caption mode and press **(EXIT)**.
- **To view captions:**
Highlight **CC1**, **CC2**, **CC3**, or **CC4**. (**CC1** displays translation of the primary language in your area.)



Note: If the program or video you selected is not closed captioned, no captions will display on-screen.

- **To view text:**
Highlight **T1**, **T2**, **T3**, or **T4**.



Note: If text is not available in your area, a black rectangle may appear on screen. If this happens, set the Base CC Mode to **Off**.

- **To turn off the closed caption mode:**
Select **Off** in step 2 above.

Note: A closed caption signal may not display in the following situations:

- When a videotape has been dubbed
- When the signal reception is weak
- When the signal reception is non-standard

(continued)

Chapter 6: Using the TV's features

Digital CC Settings

You can customize the closed caption display characteristics by changing the background color, opacity, text size, type, edge, and color.

Note:

- This feature is available for digital channels only.
- You cannot set the Caption Text and Background as the same color.

To customize the closed captions:

- 1 Press **(MENU)** and open the **Preferences** menu.
- 2 Highlight **Digital CC Settings** and press **(OK)**.
- 3 Press **▲** or **▼** to highlight the characteristic you want to change, and then press **◀** or **▶** to select the format for that characteristic (see table below).
- 4 To save the new settings, highlight **Done** and press **(OK)**. To revert to the factory defaults, highlight **Reset** and press **(OK)**.

Caption Size	Auto, Small, Standard, Large
Caption Text Type	Auto, Default, Mono w. Serif, Prop. w. Serif, Mono w/o Serif, Prop. w/o Serif, Casual, Cursive, Small Capitals
Caption Text Edge	Auto, None, Raised, Depressed, Uniform, Left Drop Shadow, Right Drop shadow
Caption Text Color	Auto, Black, White, Red, Green, Blue, Yellow, Magenta, Cyan
Text Foreground Opacity	Auto, Transparent, Translucent, Flashing, Solid
Background Color	Auto, Black, White, Red, Green, Blue, Yellow, Magenta, Cyan
Text Background Opacity	Auto, Transparent, Translucent, Flashing, Solid
Caption Text Edge Color	Auto, Black, White, Red, Green, Blue, Yellow, Magenta, Cyan

CC Selector

You can use the **CC Selector** to temporarily override the default analog caption mode (set in **Base CC Mode**) for a particular channel. However, once you change to another analog channel, the closed caption setting will automatically change back to the current **Base CC Mode** setting.

You can also use the **CC Selector** to select digital closed caption services (if available). When such services are not available, the **CC Selector** presents a default list of services. If the selected service is not available, the next best service will be used instead.

To select closed captions:

- 1 Press **(MENU)** and open the **Preferences** menu.
- 2 Highlight **CC Selector** and press **(OK)**.
- 3 Press **▲** or **▼** to select **Closed Caption**, and then press **◀** or **▶** to select the desired service.
- 4 Press **(EXIT)**.

Using the Closed Caption button

If you press **(CC)** when an analog channel is tuned or from an external AV input (only available for 480i):

- The CC bar will appear and will display CC1-4 and T1-4 as the options.

If you press **(CC)** when a digital channel is tuned:

- The CC bar will appear and will display the available caption options (available languages) for that channel or service.

Adjusting the audio

Muting the sound

Press **(MUTE)** on the remote control to partially reduce (1/2 MUTE) or turn off (MUTE) the sound. Each time you press **(MUTE)**, the mute mode will change in the following order:



If the closed caption mode is set to **Off** when you select “MUTE” mode, the closed caption feature is automatically activated if the TV program is Closed Captioned. To mute the audio without automatically activating the closed caption feature, use **(VOL)** to set the volume to 0. See “Using the closed caption mode” (page 46) for more information on closed caption modes.

Using the digital audio selector

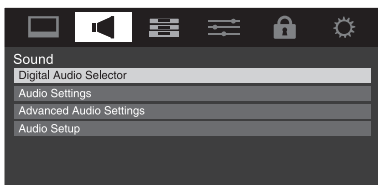
You can use the **Digital Audio Selector** to conveniently switch between audio tracks on a digital channel (for those channels that have multiple audio tracks). This temporarily overrides the audio track chosen by the language option under **Audio Setup** (page 48) “Selecting stereo/SAP broadcasts” on page 48).

(continued)

Chapter 6: Using the TV's features

To use the digital audio selector:

- 1 Press **(MENU)** and open the **Sound** menu.
- 2 Highlight **Digital Audio Selector** and press **(OK)**.



- 3 Press **▲** or **▼** to select **Audio**, and then press **◀** or **▶** to select the desired service.
- 4 Press **(EXIT)**.

Selecting stereo/SAP broadcasts

The multi-channel TV sound (MTS) feature allows you to output high-fidelity stereo sound. MTS also can transmit a second audio program (SAP) containing a second language, music, or other audio information (when provided by individual stations).

When the TV receives a stereo or SAP broadcast, the word "STEREO" or "SAP" appears on-screen when **(INFO)** is pressed. The MTS feature is only available for analog signals on the **ANT/CABLE** input.

To listen to stereo sound:

- 1 Press **(MENU)** and open the **Sound** menu.
- 2 Highlight **Audio Setup** and press **(OK)**.
- 3 In the **MTS** field, select **Stereo**.
- 4 To save the new settings, highlight **Done** and press **(OK)**.
To reset the settings to the factory defaults, highlight **Reset** and press **(OK)**.

Note:

- You can typically leave the TV in **Stereo** mode because it will automatically output the type of sound being broadcast (stereo or monaural).
- If the stereo sound is noisy, select **Mono** to reduce the noise.

To listen to an alternate language on an ATSC digital station (if available):

Highlight the **Language** field in step 3 above, and then press **◀** or **▶** to select the language you prefer.

To listen to a second audio program on an analog station (if available):

Select **SAP** in step 3 above.

Note:

- A second audio program (SAP) can be heard only on those TV stations that offer it. For example, a station might broadcast another language as a second audio program. If you have SAP on, you will see the current program on the screen but hear the other language instead of the program's normal audio.
- If you have SAP on and the station you are watching is not broadcasting a second audio program, the station's normal audio will be output. However, occasionally there is no sound at all in **SAP** mode. If this happens, set the **MTS** feature to **Stereo** mode.

Using the MTS button

If you press **(MTS)** when an analog channel is tuned:

- The Analog Audio bar will appear and will display Stereo, SAP, Mono as the options.

If you press **(MTS)** when a digital channel is tuned:

- The Digital Audio bar will appear and will offer different audio choices for the digital channel.

If you press **(MTS)** when an external input is selected:

- No Audio bar is displayed.

Adjusting the audio quality

You can adjust the audio quality by adjusting the bass, treble, and balance.

To adjust the audio quality:

- 1 Press **(MENU)** and open the **Sound** menu.
- 2 Highlight **Audio Settings** and press **(OK)**.
- 3 Press **▼** or **▲** to highlight the item you want to adjust (**Bass**, **Treble**, or **Balance**).
- 4 Press **◀** or **▶** to adjust the level.
 - **◀** makes the bass or treble weaker or increases the balance in the left channel (depending on the item selected).
 - **▶** makes the bass or treble stronger or increases the balance in the right channel (depending on the item selected).
- 5 To save the new settings, highlight **Done** and press **(OK)**. To reset the settings to the factory defaults, highlight **Reset** and press **(OK)**.

(continued)

Selecting the optical audio output format

You can use this feature to select the optical audio output format when you connect a Dolby Digital decoder or other digital audio system to the **Optical Audio Out** terminal on the TV (see “Connecting a digital audio system” on page 20).

To select the optical audio output format:

- 1 Press **(MENU)** and open the **Sound** menu.
- 2 Highlight **Audio Setup** and press **(OK)**.
- 3 In the **Optical Output Format** field, select either **Dolby Digital** or **PCM**, depending on your device.
- 4 To save the new settings, highlight **Done** and press **(OK)**. To revert to the factory defaults, highlight **Reset** and press **(OK)**.

Using the Dolby® Digital Dynamic Range Control feature

This dynamic range control feature causes the ATSC dynamic range to be further compressed, allowing you to switch from ATSC to analog broadcasts at the same dynamic range.

To use the Dolby Digital Dynamic Range Control:

- 1 Press **(MENU)** and open the **Sound** menu.
- 2 Highlight **Audio Setup** and press **(OK)**.
- 3 In the **Dolby Digital Dynamic Range Control** field, select **Compressed**. When **Standard** is selected, the audio is output with minimal compression.
- 4 To save the new settings, highlight **Done** and press **(OK)**.
To revert to the factory defaults, highlight **Reset** and press **(OK)**.

Note:

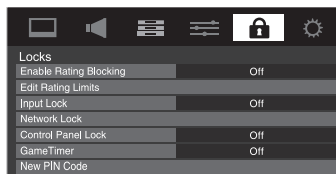
- This item will be grayed out for NTSC signals, Video, ColorStream, and PC inputs.
- The Dolby Digital Dynamic Range Control will function in relation to Optical Output Format (PCM mode).

Using the Locks menu

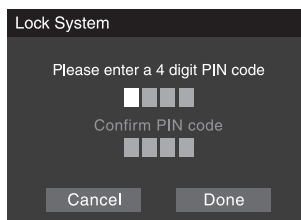
The Locks menu includes the Enable Rating Blocking, Edit Rating Limits, Input Lock, Front (Control) Panel Lock, GameTimer, and New PIN Code features. You can use these features after entering the correct PIN code.

Entering the PIN code

- 1 Press **(MENU)** and highlight the **Locks** menu icon.



- 2 Press **▼**, which displays the PIN code entry screen.
 - The **Lock System** screen (below) appears if a PIN code has not been stored. Press the Channel Number buttons to enter a new four-digit code, enter the code a second time to confirm, and press **(OK)**.



- The **Locks/Active** screen appears if the PIN code is already stored. Use the Number buttons to enter your four-digit code and press **(OK)**.

If the wrong PIN code is entered, the message “Incorrect PIN code, please try again!” appears. Highlight **Retry** and press **(OK)**. Enter the code again and press **(OK)**.

When the correct PIN code is entered, the **Locks** menu opens.

Note:

PIN code can not be set to “0000”.

If you cannot remember your PIN code

While the PIN code entering screen is displayed, press **(INFO)** four times within five seconds. The PIN code will be cleared and you can enter a new PIN code.

Changing your PIN code

- 1 Press **(MENU)** and highlight the **Locks** menu icon.
- 2 Press **▼** to display the PIN code entering screen.
- 3 Enter your four-digit PIN code and press **(OK)**.
- 4 Press **▼** to highlight **New PIN Code** and press **(OK)**.
- 5 Press the Number buttons to enter a new four-digit code. Reenter the PIN code to confirm it.
- 6 Press **(OK)**. The new PIN code is now active.

(continued)

Chapter 6: Using the TV's features

Note:

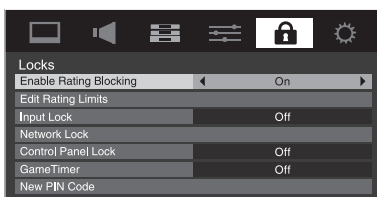
PIN code can not be set to "0000".

Blocking TV programs and movies by rating (V-Chip)

Some TV programs and movies include signals that classify the content of the program (violence, sex, dialog, language). The V-Chip feature in this TV detects the signals and blocks the programs according to the ratings you select.

To block and unblock TV programs and movies:

- 1 Press **MENU** and highlight the **Locks** menu icon.
- 2 Press **▼** to display the PIN code entering screen.
- 3 Enter your four-digit PIN code and press **OK**.
- 4 Press **▼** to highlight **Enable Rating Blocking**.
- 5 Press **▶** to select **On**, and then press **OK**.



- 6 Press **▼** to highlight **Edit Rating Limits** and press **OK**. The **Edit Rating Limits** screen appears.
- 7 Press **▲▼◀▶** and then press **OK** to select the level of blocking you prefer. A box with an "X" is a rating that will be blocked. As you highlight a rating, a definition for the rating appears at the bottom of the screen.
- 8 When done selecting the ratings you want to block, highlight **Done** and press **OK**.

Note: Above selection of blocking level is for U.S V-Chip system. For Canada rating, you can highlight the "Canada RS" then press **OK**, another "Canadian Rating Menu" screen will appear.

Downloading an additional rating system for blocking TV programs and movies

In the future, an additional rating system may become available for use in selectively blocking programs.

Note: The currently tuned station must be receiving a digital signal before an additional rating system can be downloaded.

To download the additional rating system (if available):

- 1 Press **MENU** and highlight the **Locks** menu icon.
- 2 Press **▼** to display the PIN code entering screen.
- 3 Enter your four-digit PIN code and press **OK**.
- 4 Press **▼** to highlight **Enable Rating Blocking**.
- 5 Press **▶** to select **On**, and press **OK**.
- 6 Press **▼** to highlight **Edit Rating Limits** and press **OK**. The **Edit Rating Limits** screen appears.
- 7 Highlight **Alt RS** and press **OK**. The **Edit Alternate Ratings** screen will appear.

Note:

- The **Alt RS** button will only be available if an additional rating system is currently available.
- It may take several minutes for the TV to download the additional rating system.
- The information displayed in the **Alternate Ratings** screen will depend on the configuration of the additional rating system available at the time of download.

- 8 Press **▲▼◀▶** and then press **OK** to select the level of blocking you prefer. A box with an "X" is a rating that will be blocked.
- 9 When you are finished selecting the ratings you want to block, highlight **Done** and press **OK**.
- 10 In the **Edit Rating Limits** screen, highlight **Done** and press **OK**.

Note:

- The additional rating system can only be downloaded one time. You will not be able to download any updates to the rating system should such updates become available.
- The additional rating system is not designed, transmitted, or controlled by the TV or Toshiba, nor is the availability of an additional rating system determined or controlled by Toshiba. Similarly, the rating of programs in an additional rating system is not determined, transmitted, or controlled by the TV or Toshiba.
- The additional rating system is an evolving technology; therefore, availability, content, and format may vary.

(continued)


Chapter 6: Using the TV's features

Independent rating system for broadcasters	
Ratings	Description and Content themes
TV-MA	Mature Audience Only (This program is specifically designed to be viewed by adults and therefore may be unsuitable for children under 17.) L) Crude or indecent language S) Explicit sexual activity V) Graphic violence
TV-14	Parents Strongly Cautioned (This program contains some material that many parents would find unsuitable for children under 14 years of age.) D) Intensely suggestive dialog L) Strong, coarse language S) Intense sexual situations V) Intense violence
TV-PG	Parental Guidance Suggested (This program contains material parents may find unsuitable for younger children.) D) Some suggestive dialog L) Infrequent coarse language S) Some sexual situations V) Moderate violence
TV-G	General Audience (Most parents would find this program suitable for all ages.)
TV-Y7, TV-Y7FV	Directed to Older Children (This program is designed for children age 7 and above. Note: Programs in which fantasy violence may be more intense or more combative than other programs in this category are designated TV-Y7FV.)
TV-Y	All Children (This program is designed to be appropriate for all children.)

Independent rating system for movies	
Ratings	Description and Content themes
X	X-rated (For adults only)
NC-17	Not intended for anyone 17 and under
R	Restricted (Under 17 requires accompanying parent or adult)
PG-13	Parents Strongly Cautioned (Some material may be inappropriate for children under 13)

PG	Parental Guidance Suggested (Some material may not be suitable for children)
G	General Audience (Appropriate for all ages)

Note:

- If you place an "X" in the box next to "**None** Rated," programs rated "**None**" will be blocked; however, programs that do not provide any rating information will not be blocked.
- To display the rating of the program you are watching, press  on the remote control. If it is rated "None," the word "**NONE**" appears in the **INFO** screen (as shown below right). If rating information is not provided, no rating will appear in the **INFO** screen.





TV - PG L V




NONE





Locking channels

With the Lock feature, you can lock specific channels. The locked channels can only be accessed by entering the PIN.

To lock channels:

- 1 From the **Setup** menu, highlight **Installation** and press .
- 2 Press  or  to select **Channel Options** and press . The list of channels will appear.

Channel Options			
Ch.	Type		
1	Digital		
2	Analog		
3	Digital		
4	Analog		
5	Analog		
6	Analog		
7	Analog		
8	Analog		

- 3 Press  and then  or  to select a channel in the lock column.
- 4 PIN code entry will be required to set a locked channel.
Note: If the PIN code has not been set yet, a warning message will appear.
- 5 A tick will appear in the box.
To remove the tick, press  again.

(continued)

Unlocking programs temporarily

If you try to tune the TV to a program that exceeds the rating limits you set, the TV will enter program lock mode and the following message will appear on-screen:

This program exceeds the rating limit you set.
Push 'MUTE' to enter PIN.

You can either temporarily unlock the program or select an unlocked program to watch.

To temporarily unlock the program:

- 1 Press **MUTE**.
- 2 Enter your four-digit PIN code and press **OK**. If the correct code is entered, the program lock mode is released and the normal picture appears. All locking is disabled until the TV is turned off, and will be enabled when the TV is turned on again.

Using the input lock feature

You can use the Input Lock feature to lock the video inputs (**VIDEO**, **ColorStream HD**, **HDMI 1**, **HDMI 2**, **HDMI 3**, **HDMI 4**, and **PC**) and channels 3 and 4. You will not be able to view the input sources or channels until you unlock the inputs.

To lock/unlock the video inputs:

- 1 From the **Locks** menu, Press **▼** to display the PIN code entering screen.
- 2 Enter your four-digit PIN code and press **OK**.
- 3 Press **▼** to highlight **Input Lock** and press **►** to select the level of video input locking you prefer, as described below.

Mode	Description
Video	Locks VIDEO, ColorStream HD, HDMI 1, HDMI 2, HDMI 3, HDMI 4, and PC.
Video+	Locks VIDEO, ColorStream HD, HDMI 1, HDMI 2, HDMI 3, HDMI 4, PC and channels 3 and 4. <ul style="list-style-type: none"> • Select Video+ if you play video tapes via an ANT/CABLE input.
Off	Unlocks all video inputs and channels 3 and 4.

- 4 Press **EXIT**.

Using the Network lock feature

You can use the Network Lock feature to prevent the Web browser from launching. When this feature is set to **On**, PIN input will be necessary to use Widgets, VUDU or Netflix.

To Lock the Network:

- 1 From the **Locks** menu, press **▼** to display the PIN code entering screen.
- 2 Enter your four-digit PIN code and press **OK**.
- 3 Press **▼** to highlight **Network Lock** and press **◀** or **▶** to select **On**, and then press **EXIT**.

To unlock the Network:

Select **Off** in step 3 above.

Using the GameTimer®

You can use the GameTimer to set a time limit for playing a video game (30–120 minutes). When the GameTimer expires, the TV enters Input Lock mode and locks out the input source for the video game device.

To set the GameTimer®:

- 1 From the **Locks** menu, press **▼** to display the PIN code entering screen.
- 2 Enter your four-digit PIN code and press **OK**.
- 3 Press **▼** to highlight **GameTimer** and press **►** to select the length of time until the Input Lock is activated (30, 60, 90, or 120 minutes).

To cancel the GameTimer®:

Select **Off** in step 3 above.

To deactivate the Input Lock once the GameTimer® has activated it:

Set the **Input Lock** to **Off** (ⓘ “Using the input lock feature” as described).

Note:

- A message will appear when 10 minutes, 3 minutes, and 1 minute remain on the GameTimer.
- If the TV loses power with time remaining on the GameTimer, when power is restored the TV will enter Input Lock mode (as if the GameTimer had been activated) and you will have to deactivate the Input Lock (as described before).

(continued)

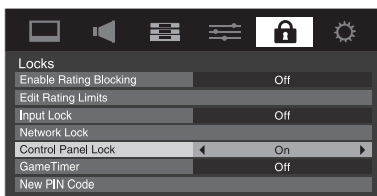
Chapter 6: Using the TV's features

Using the control panel lock feature

You can lock the control panel to prevent your settings from being changed accidentally (by children, for example). When the control panel lock is **On**, none of the controls on the TV control panel will operate except **POWER**.

To lock the control panel:

- 1 Press **(MENU)** and highlight the **Locks** menu icon.
- 2 Press **▼** to display the PIN code entering screen.
- 3 Enter your four-digit PIN code and press **(OK)**.
- 4 Press **▼** to highlight **Control Panel Lock**.
- 5 Press **▶** to select **On**. When the control panel is locked and any button on the control panel (except **POWER**) is pressed, the message “NOT AVAILABLE” appears.



To unlock the control panel:

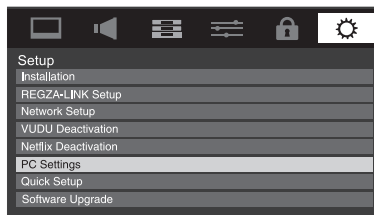
Select **Off** in step 5 above, or press and hold the **VOLUME –** button on the TV control panel for about 10 seconds until the volume icon appears.

Using the PC settings feature

You can view an image from a PC on the TV screen. When a PC is connected to the TV's PC IN terminal, you can use the PC Settings feature to make adjustments to the image. If the edges of the picture are cut off, readjust the **Horizontal Position** and **Vertical Position**. If the picture is affected by interference, readjust the **Clock Phase** and **Sampling Clock**.

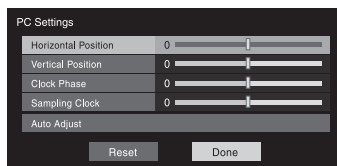
To adjust the PC settings:

- 1 Repeatedly press **(INPUT)** to select PC input mode (see “Selecting the video input source to view” page 38).
- 2 Press **(MENU)** and open the **Setup** menu.
- 3 Highlight **PC Settings** and press **(OK)**.



Note: If a PC is not connected or there is no pc input signal, this feature will be grayed out in the **Setup** menu.

- 4 Press **▲** or **▼** to highlight the item you want to adjust.
- 5 Press **◀** or **▶** to make the appropriate adjustments.



Note: The screen is disrupted momentarily when adjusting the PC settings. This is not a sign of malfunction.

Mode	Description
Horizontal Position	Moves the picture left/right. The adjustment range is within ± 50 from center.*
Vertical Position	Moves the picture up/down. The adjustment range is within ± 10 from center.*
Clock Phase	Helps to reduce noise and sharpen the picture. The adjustment range is within ± 16 from center.*
Sampling Clock	Helps to reduce noise and minimize periodic vertical stripes on the screen. The adjustment range is within ± 10 from center.*
Auto Adjust	Highlight this item then press (OK) to get an optimum adjustment automatically.

* The default settings may vary depending on the input signal format.

(continued)

Setting the PC Audio

This function allows you to output or mute the sound from your PC when connecting using the PC IN terminal and an analog RGB cable. (☞ page 20)

To set the PC Audio:

- 1 Press **(MENU)** and open the **Sound** menu.
- 2 Highlight **Audio Setup** and press **(OK)**.
- 3 Press **▲** or **▼** to select **PC Audio** and then press **◀** or **▶** to select **No** or **Yes**.
Yes: When viewing the PC input, the audio from the PC Audio input can be heard.
No: When viewing the PC input, there will be no audio.
Note: Because the PC and HDMI-1 inputs share the same set of analog audio inputs, the **PC Audio** menu setting influences the **HDMI 1 Audio** menu setting. If **PC Audio** is set to "**No**," the **HDMI 1 Audio** setting changes to "**Auto**." If **PC Audio** is set to "**Yes**," the **HDMI 1 Audio** setting is set to "**Digital**" and is grayed out in the menu. (Also see item 3 on page 14 and "Setting the HDMI® Audio mode" on page 36.)

Using the Media Player

Using the Media Player with USB

You can enjoy photos or music contents stored on a USB storage device.

Photo Viewer specifications:

Data type: JPEG Exif ver2.1
File format: JPEG
Maximum photo size: 6 MB
Maximum number of files: 500 / folder
Maximum photo resolution: 4096 x 4096 pixels
Best photo resolution: 1920 x 1080 pixels

Music Player specifications:

File format: MP3
Sampling frequency: 16 kHz, 22.05 kHz, 24 kHz, 32 kHz, 44.1 kHz, 48 kHz
Bit rate: from 8 to 320 kbps
Maximum number of files: 500 / folder

Supported file system:

FAT16 and FAT32

Note:

- Gently insert the USB device into the port and do not remove while viewing Media Player.

- USB device: USB Mass Storage Class device (MSC)
- Connectivity is not guaranteed for all devices.
- Connect the USB device to the TV directly.
- Do not use a USB Hub.
- You must obtain any required permission from copyright owners to use copyright content. Toshiba cannot and does not grant such permission.
- Depending on the file size and amount in your USB storage device, it may take some time for loading to view. A message will display on-screen when loading files from the USB storage device.

To select the Auto Start function

- 1 Press **(MENU)** and **◀** or **▶** to select the **Application** menu.
- 2 Press **▼** to select **Media Player**, and then press **(OK)**.
- 3 Select **USB**, and then press **(OK)**.
- 4 Press **▲** or **▼** to select **Auto Start**.
- 5 Press **◀** or **▶** to select **On** or **Off**.

Note: The Auto Start function does not operate for the LAN port.

To open the Media Player

There are two kinds of methods to open the Media Player.

Automatically open:

- 1 Gently insert a supported USB storage device to the USB port on the side of the TV. A prompt will appear.

Note: If you repeatedly insert and remove the USB connector, the prompt may not appear.

- 2 Press **◀** or **▶** to select **Yes**, and then press **(OK)**. When the **Auto Start** function is **On**, the **Media Player** menu will appear. When you select **No**, nothing happens.

A device was connected to the TV. Would you like to open the Media Player?

No

Yes

Note: The prompt will disappear after about 10 sec.

(continued)

Chapter 6: Using the TV's features

Manually open:

- 1 Press **MENU** and **◀** or **▶** to select the **Setup** menu.
- 2 Press **▼** to select **Media Player**, and then press **OK**.
- 3 Select **USB**, and then press **OK**.
- 4 Press **▲** or **▼** to select **Photo** or **Music** then press **OK**.



Note:

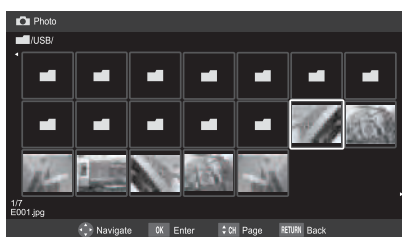
- The viewer will also open even if there are no photo or music files.
- While the Media Player is active, the main menus cannot be displayed.

Viewing photo files

There are three types of view modes.

Multi View:

This view allows you to search for photos in a grid format. These pictures are displayed using thumbnail data in each image file.



- 1 Press **▲▼◀▶** to move the highlight in one window. If all of the photos will not fit in one screen, when pressing **◀** at the top left thumbnail, the screen will move to the previous page. Conversely, when pressing **▶** at the bottom right thumbnail, the screen will move to the next page. **CH** / **CH** buttons can be used to page up/down the photo list when there are more photos than will fit onto one screen.
- 2 When you select a folder, press **OK** to move to the next layer. Press **RETURN** to move back to the previous layer.
- 3 Press **RETURN** to view the selected photo in Single View mode.

Single View

In this view mode, only files located in the selected directory shall be displayed. This view allows you to change the photo content manually. When moving from Multi View to the Single View, the currently selected photo shall be displayed.

- 1 Press **▶** to view the next photo. Press **◀** to view the previous photo.
- 2 Press **▲** to rotate the image 90° clockwise. Press **▼** to rotate the image 90° counterclockwise.

Slideshow

This view allows you to watch a slideshow of the photos. In this mode, only files located in the selected directory will be played.

- 1 To start slideshow, press **OK** in the Single View mode.
- 2 Press **◀/▶** to view the previous/next photo.

To set Interval Time and Repeat settings:

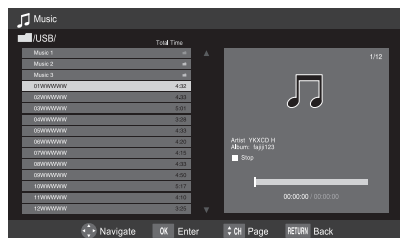
- 1 Press **QUICK** to open the **Quick** menu.
- 2 Press **▲** or **▼** to select either **Interval Time** or **Repeat**.
- 3 Press **◀** or **▶** to adjust the setting and press **RETURN**.

To close the Photo Viewer

- 1 Press **EXIT**. The television will return to the last viewed channel or external input.

Playing music files

You can listen to music from a list of available files.



- 1 Press **▲▼** to select a file or folder. **CH** / **CH** buttons can be used to page up/down the music list when there are more files than will fit onto one screen.

(continued)

Chapter 6: Using the TV's features

- 2 When you select a folder, press **OK** to move to the next layer. Press **RETURN** to move back to the previous layer.
- 3 With the desired file selected, press **OK** or **PLAY** to start playback.
- 4 Press **STOP** to stop playback.

Note:

- If playback finishes before **STOP** is pressed, the next file will automatically start to play from the beginning.
- Depending on the file size, it may take some time for playback to begin.

During playback

- Press **PAUSE/STEP** to pause.
- To resume normal playback, press **PLAY**.
- To locate a specific file, press **SKIP** or **SKIP** repeatedly.
- To adjust volume, press **[+VOL]** / **[VOL]**.

Note:

During playback, you can adjust the **SOUND** menu functions from the **QUICK** menu.

To set the repeat mode:

- 1 Press **QUICK** to open the **Quick** menu.
- 2 Press **◀** or **▶** to select **Off**, **All** or **1**.
- 3 Press **RETURN**.

To close the Music Player

- 1 Press **EXIT**.

Viewing photo files with playing music files at same time

While viewing photo files, this allow you listen to music from a list of available files.

- 1 While viewing photo in the **Single View** or **SlideShow** mode, press **QUICK** to open the **Quick** menu.
- 2 Highlight **Background Music** and press **OK**, the music list will appear.
- 3 Select a music file and press **OK** to start playback.
- 4 Press **RETURN** to move back the photo view mode, now the music is playing in the background.

Using a networked server PC

This TV is a DLNA CERTIFIED™ Player. This TV can play digital content stored on a DLNA CERTIFIED™ product with server function. To play the files from your DLNA server on the TV, you have to first complete the following:

- Home network connection (page 22)
- DLNA server installation (refer to the owner's manual of the DLNA recognition server)
- Setting up the Network (see chapter 8)

Note:

- Connectivity is not guaranteed for all DLNA servers.
- While some DLNA recognition servers are connected, it may take time until the device after the second is displayed.

Photo Viewer specifications:

Data type: JPEG Exif ver.1.x or later, JFIF 1.02

File format: JPEG

Maximum photo size: 6 MB

Maximum number of files: 500 / folder

Maximum photo resolution: 4096 x 4096 pixels

Best photo resolution: 1920 x 1080 pixels

Movie Viewer specifications

File format: Video: MPEG2(PS) NTSC,
MPEG2(TS) SD

Audio: LPCM / MPEG1-Layer1 /
MPEG1-Layer2 / MPEG2-Layer2

Maximum number of files: 500 / folder

Music Player specifications:

File format: MP3, LPCM

Sampling frequency: 32 kHz, 44.1 kHz, 48 kHz

Bit rate: from 32 to 320 kbps

Maximum number of files: 500 / folder

Using the Media Player with DLNA

- 1 Press **MENU** and **◀** or **▶** to select the **Application** menu.
- 2 Press **▼** to select **Media Player**, and then press **OK**.
- 3 Press **▲** or **▼** to select the active device, and then press **OK**.
- 4 Press **▲** or **▼** to select **Photo**, **Music** or **Movie** then press **OK**.



(continued)

Chapter 6: Using the TV's features

Note:

- The viewer will also open even if there are no photo or music files.
- While the Media Player is active, the main menus cannot be displayed.

To display device information

- 1 While the Photo list, Movie list or Music list is on the screen, press **QUICK** to open the **Quick** menu.
- 2 Press **▲** or **▼** to highlight **Device Information**, and then press **OK**.

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Viewing photo files

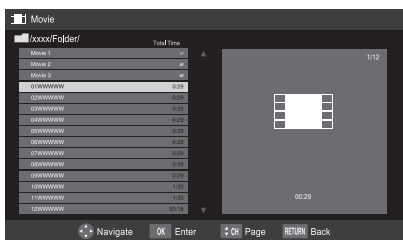
(See page 55)

Playing music files

(See page 55)

Viewing movie files

You can select movies from a list of available files.



- 1 Press **▲** or **▼** to select a file or folder. **CH** / **CH** buttons can be used to page up/down the movie list when there are more files than will fit onto one screen.
- 2 When you select a folder, press **OK** to move to the next layer. Press **RETURN** to move back to the previous layer.
- 3 With the desired file selected, press **OK** or **PLAY** to start playback.
- 4 Press **STOP** to stop playback.

Note:

- Depending on the file size, it may take some time for playback to begin.
- Dual Band WLAN Adapter (WLM-10U1) is not support movie in DLNA. The playing time may not be displayed while a movie is playing.

During playback:

- Press **PAUSE/STEP** to pause.
- To resume normal playback, press **PLAY**.
- To locate a specific file, press **SKIP** or **SKIP** repeatedly.

To close the Movie Player

- 1 Press **EXIT**.

Contents	Description	Description
Photo	Photo list (Multi view)	See page 55.
	Sorting (Only USB storage device)	
	To sort the folders and files	
	1 Press QUICK to open the Quick menu from Multi View mode.	
	2 Press ▲ or ▼ to select Sort .	
	3 Press ◀ or ▶ to select Title , New or Old to set the sorting rule.	
	Title --File sorting rules:	
	1 Unicode priority	
	2 (0, 1, ..., 9), capital alphabet (A, B, ..., Z), small alphabet (a, b, ..., z), Chinese	
	3 Increasing order	
	New --From new to old according to the date and time when the picture was taken.	
	Old --From old to new according to the date and time when the picture was taken.	
Device Information display		See page 57
Single view mode		See page 55
Slide Show mode		See page 55
Skip to previous/next photo		See page 55
Slideshow Repeat play		See page 55
Slideshow Interval Time selection		See page 55

(continued)

Chapter 6: Using the TV's features

Contents	Description	Description
Music	Music list (Multi view)	See page 55.
	Sorting (Only USB storage device)	
	To sort the folders and files	
	1 Press ⏏ to open the Quick menu.	
	2 Press ▲ or ▼ to select Sort .	
	3 Press ◀ or ▶ to select Title, New or Old to set the sorting rule.	
	Device Information display	See page 57
	Playback	See page 56
	Pause	See page 56
	Stop	See page 55
	Skip	See page 56
	Repeat play	See page 56
	SOUND Settings ("Adjusting the audio quality")	See page 48

Contents	Description	Description
Movie	Movie list (Multi view)	See page 57.
	Sorting (Only USB storage device)	
	To sort the folders and files	
	1 Press ⏏ to open the Quick menu in the movie list mode.	
	2 Press ▲ or ▼ to select Sort .	
	3 Press ◀ or ▶ to select Title, New or Old to set the sorting rule.	
	Device Information display	See page 57
	Playback	See page 57
	NOTE: When a file is highlighted, press ⏏ or ▶ to start full screen playback.	
	Pause	See page 57
	Stop	See page 57
	Skip to previous/next video	See page 57
	SOUND Settings ("Adjusting the audio quality")	See page 48

Note: Sorting, Total Time display may not be available in all cases.

Setting the sleep timer

You can set the sleep timer to turn off the TV after a set length of time (maximum of 180 minutes).

To set the sleep timer using the remote control:

Press **SLEEP** on the remote control to set the length of time until the TV turns off. Repeatedly press **SLEEP** to increase the time in 10-minute increments, or press **▲** or **▼** to increase or decrease the time in 10-minute increments, to a maximum of 180 minutes.

To set the sleep timer using the on-screen menus:

- 1 Press **Ⓜ** and open the **Application** menu.
- 2 Highlight **Sleep Timer** and press **Ⓞ**.
- 3 Press the Number buttons to enter the length of time in 10-minute increments.
- 4 Highlight **Done** and press **Ⓞ**.

Note: When a power failure occurs, the sleep timer setting may be cleared.

To display the remaining sleep time:

Press **SLEEP**.

Note: A message will display on-screen when there is one minute remaining on the sleep timer.

To cancel the sleep timer:

Repeatedly press **SLEEP** until it is set to 0 minute.

Automatic Power Down

The TV will automatically turn itself off (standby) after 4 hours, if you do not operate the TV either from the remote control or the TV control panel.

- 1 From the **Preferences** menu, highlight **Energy Saving Settings** and press **Ⓞ**.
- 2 Press **▲** or **▼** to select **Automatic Power Down**.
- 3 Press **◀** or **▶** to select **On** or **Off**, and press **Ⓞ**.

Note:

- This feature is set to **On** when Location is set to **Home**. (Also see item 3 of "initial setup" on page 34).
- 1 minute before switching to standby, a warning message will appear.
- When the following features are set, the feature that is set for the nearest time will function.
 - Automatic Power Down
 - Sleep Timer
 - No signal auto power off (after 15 minute of no signal).

(continued)

Chapter 6: Using the TV's features

No Signal Power Down

The TV will automatically turn itself off after 15 minutes when no signal is detected. You can change the setting to Off for the following purposes:

- low signal strength of analog channel (no signal detection)
- Only Audio L/R is connected to external input to listen to music through the TV speakers.

1 From the **Preferences** menu, highlight **Energy Saving Settings** and press **OK**.

2 Press **▲** or **▼** to select **No Signal Power Down** and press **OK**.

3 Press **▲** or **▼** to highlight the item you want to change, and press **◀** or **▶** to select **On** or **Off**.

Note:

- Default setting is all **On**.
- A warning message will appear 1 minute before turning off.

Using REGZA-LINK®

This is a new feature that uses CEC technology and allows you to control Toshiba REGZA-LINK compatible devices from the TV remote via HDMI connection (see pages 18-19).

When the Enable REGZA-LINK in the REGZA-LINK setup menu is set to **On**, the following REGZA-LINK functions will be enabled.

REGZA-LINK® playback device (DVD player, etc.) control

With your TV's remote control, or using the REGZA-LINK Player Control menu, you can control the connected REGZA-LINK playback device you are watching.

Available remote control key functions:

Before using the following key functions, first set the MODE SELECT switch on the remote control to **TV**.

Button	Description
PLAY 	Begins playback.
STOP 	Stops playback.
PAUSE/STEP 	Pauses the picture during play or record mode.
SKIP 	Skips forward.

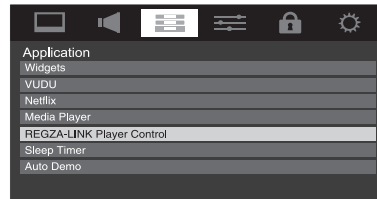
Button	Description
SKIP 	Skips backward.
FF 	Fast-forwards.
REW 	Rewinds/reverses.
▲▼◀▶	Navigate contents menu, etc.
OK	Enters contents menu, etc.
EXIT	Returns to the previous menu.
RED, GREEN, YELLOW, BLUE	Controls various operations

Note: These functions depend on the devices connected.

REGZA-LINK® Player Control menu functions:

1 Press **MENU** and open the **Application** menu.

2 Highlight **REGZA-LINK Player Control** and press **OK**.



3 Press **▲** or **▼** to select the item you want to control and press **OK**.

Item	Description
Power	Turns the select device on and off.
Root Menu	Accesses the top menu of the selected device.
Contents Menu	Accesses the contents list when you press OK . At this time, the REGZA-LINK Player Control menu will disappear.
Setup Menu	Accesses the setup menu of a DVD player.
Top Menu	Accesses the top menu of a DVD.
Menu	Accesses the menu of a DVD.

Note:

- These functions depend on the devices that are connected.

(continued)



- The **REGZA-LINK Player Control** item will be grayed out in the following conditions:
 - _ A non-HDMI input is currently selected.
 - _ The **Enable REGZA-LINK** item is set to **Off**.
 - _ The connected CEC device is not a playback or recording device.

REGZA-LINK® input source selection

If a REGZA-LINK device with HDMI switching capability (e.g. Audio Receiver) is connected to the HDMI input, you can select another REGZA-LINK device that is connected to the master HDMI device using the TV's INPUT button. See page 38 for details.

VOLUME and MUTE controls of Audio Receiver

With your TV's remote control, you can adjust or mute the sound volume of the Audio Receiver. First, set the MODE SELECT switch on the remote control to **TV**.

-  adjust the volume level.
-  turns off the sound.

Note:

- To use this function:
 - _ Set **Speaker Preference** to **Audio Receiver** in the **REGZA-LINK Setup** menu.
 - _ Confirm that a connected REGZA-LINK device (such as DVD player, etc) is selected for the Audio Receiver input source.
- You can also use this function when the audio receiver is connected to the TV's **DIGITAL AUDIO OUT** terminal (not HDMI connection). In this case, select a digital audio input mode on the Audio Receiver.
- These functions depend on the device connected.






Other REGZA-LINK® functions







When the **Enable REGZA-LINK** and each item in the **REGZA-LINK Setup** menu are set to **On**, the following functions will be enabled.

Item	Description
TV Auto Input Switch	If a connected HDMI device starts playing video or audio, the TV will automatically switch to the appropriate HDMI input.
TV Auto Power	If a REGZA-LINK device is turned on, the TV turns on automatically.
Device Auto Standby	If the TV is turned off the TV will send a message to turn off all of the REGZA-LINK devices connected to the TV.
Speaker Preference	From this item, you can set your audio output preference to the TV speakers or the audio receiver speakers. When this item is set to Audio Receiver, the TV remote can be used to adjust or mute the volume of the audio. This item will be grayed out unless a REGZA-LINK compatible audio receiver is connected.

Note: When you turn on the Audio Receiver, change its input source, or adjust the sound volume, the sound will be output from the audio receiver's speakers even if **TV Speakers** has been selected. Turn the TV off and on again to output the sound from the TV speakers.

To set the REGZA-LINK® Setup:

- 1 From the **Setup** menu, highlight **REGZA-LINK Setup** and press .
- 2 Press  or  to highlight **Enable REGZA-LINK**.
- 3 Press  or  to select **On**.

Note: If you select **Enable REGZA-LINK Off**, the other items will be grayed out.
- 4 Press  or  to highlight the **REGZA-LINK Setup** item you want to use, and press  or  to select **On** or desired mode.
 - TV Auto Input Switch: On/Off
 - TV Auto Power: On/Off
 - Device Auto Standby: On/Off
 - Speaker Preference: TV Speakers/Audio Receiver
- 5 To save the new settings, highlight **Done** and press . To revert to the factory defaults, highlight **Reset** and press .

(continued)

Displaying TV status information

To display TV status information using INFO:

Press **INFO** on the remote control.

The following information will display (if applicable):

- Current input (**ANT/CABLE, VIDEO**, etc.)
- If ANT/CABLE is the current input, either "CABLE" (for cable TV) or "ANT" (for over-the-air broadcasts).
- Channel number (if in **ANT/CABLE** mode)
- Channel label (if applicable)
- Digital signal strength indicator (bar graph in lower right corner of box; for ATSC signal only)
- Stereo, Mono or SAP audio status (when HDMI input mode, Dolby Digital or PCM)
- Video resolution
- Aspect ratio of incoming video signal (4:3 or 16:9)
- V-Chip rating status
- Game Timer (if set)

To close the screen: (except ANT/CABLE input)

Press **INFO** again.

The following additional information will display for ANT/CABLE input.

- Title
- Duration
- Detailed description

To display next program information for ANT/CABLE input, press **INFO** again. Pressing **INFO** a third time will remove the entire banner.



Note: The location of the banner can be moved to the top or bottom of the screen by pressing **▲** or **▼** while the **INFO** display is on-screen.

Understanding the auto power off feature

The TV will automatically turn itself off after approximately 15 minutes if it is tuned to a vacant channel or a station that completes its broadcast for the day.

Note:

- If you want to set this feature to off, see "No Signal Power Down" on page 59.
- If it is possible that you will be away from the TV for an extended period of time, you should unplug the power cord.

Understanding the last mode memory feature

If the power is cut off while you are viewing the TV, the **Last Mode Memory** feature automatically turns on the TV when the power is resupplied.

Note: If it's possible, and you will be away from the TV for an extended period of time you should unplug the power cord.

Chapter 7: Using the TV's advanced features

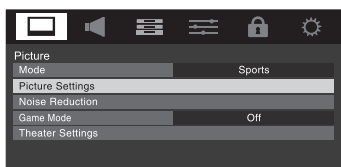
Using the advanced picture settings features

Using Dynamic Contrast

Dynamic Contrast detects changes in picture quality that affect the appearance of your contrast settings and then automatically adjusts the video.

To select Dynamic Contrast preference:

- 1 From the the **Picture** menu, highlight **Picture Settings** and press **OK**.



- 2 Highlight **Advanced Picture Settings** and press **OK**.
- 3 Press **▲** or **▼** to select **Dynamic Contrast**.
- 4 Press **◀** or **▶** to select **High, Middle, Low** and **Off**.

Using the static gamma feature

The static gamma feature allows you to adjust the levels of black in the picture.

To adjust the static gamma settings:

- 1 Press **(MENU)** and open the **Picture** menu.
- 2 Highlight **Picture Settings** and press **OK**.
- 3 Highlight **Advanced Picture Settings** and press **OK**.
 - In the **Static Gamma** field, press **◀** or **▶** to adjust the static gamma.
The adjustment range is within ± 5 from center.
 - If the setting is moved in the minus direction, the detail of black colors will be decreased.
 - If the setting is moved in the plus direction, the detail of black colors will be increased.
- 4 To save the new settings, highlight **Done** and press **OK**.
To revert the factory defaults, highlight **Reset** and press **OK**.

Note: If you select one of the factory-set picture modes (**Sports**, **Standard**, **Movie** or **PC**) and then change the static gamma setting, the picture mode automatically changes to **Preference**.

Selecting the color temperature

You can change the quality of the picture by selecting from three preset color temperatures (Cool, Medium, and Warm), as described below.

Mode	Picture Quality
Cool	blueish
Medium	neutral
Warm	reddish

To select the color temperature:

- 1 Press **(MENU)** and open the **Picture** menu.
- 2 Highlight **Picture Settings** and press **OK**.
- 3 Highlight **Advanced Picture Settings** and press **OK**.
- 4 Highlight **Color Temperature** and press **OK**.
- 5 In the **Color Temperature** field, press **◀** or **▶** to select the mode you prefer (**Cool**, **Medium**, or **Warm**).
- 6 Press **▲** or **▼** to select either **B Drive** or **G Drive**, and then press **◀** or **▶** to adjust the settings.
 - **B Drive**: **▶** makes the picture blueish.
 - **G Drive**: **▶** makes the picture greenish.

Note: The **B Drive** and **G Drive** settings are connected to the **Color Temperature** settings and will change based on which setting is selected in step 5 above.

- 7 To save the new settings, highlight **Done** and press **OK**.
To revert to the factory defaults, highlight **Reset** and press **OK**.

Note: If you select one of the factory-set picture modes (**Sports**, **Standard**, **Movie**, or **PC**) and then change the color temperature setting, the picture mode automatically changes to **Preference**.

(continued)

Selecting the cinema mode

When you view a DVD (3:2 pulldown processed) from a DVD player connected to the **VIDEO**, **ColorStream HD** (component video), or **HDMI** inputs on the TV, smoother motion can be obtained by setting the **Cinema Mode** to **Film**.

To set the Cinema Mode to Film:
(available for 480i and 1080i signals)

- 1 Press **(MENU)** and open the **Picture** menu, highlight **Picture Settings** and press **(OK)**.
- 2 Highlight **Advanced Picture Settings** and press **(OK)**.
- 3 In the **Cinema Mode** field, select **Film**.
- 4 To save the new settings, highlight **Done** and press **(OK)**.
To revert to the factory defaults, highlight **Reset** and press **(OK)**.

To set the Cinema Mode to Video:

Select **Video** in step 3 above.

Using the ClearFrame™ feature

The new ClearFrame 120 Hz anti-blur technology doubles the frame rate from 60 frames per second to 120 frames per second, virtually eliminating motion blur without adding flicker or reducing image brightness.

To turn on the ClearFrame:

- 1 Press **(MENU)** and open the **Picture** menu, highlight **Picture Settings** and press **(OK)**.
- 2 Highlight **Advanced Picture Settings** and press **(OK)**.
- 3 In the **ClearFrame** field, select **On**.
- 4 To save the new settings, highlight **Done** and press **(OK)**.
To revert to the factory defaults, highlight **Reset** and press **(OK)**.

Note:

- If you select one of the factory-set picture modes (**Sports**, **Standard**, **Movie** or **PC**) and then change the ClearFrame setting, the picture mode automatically changes to Preference.
- When **ClearFrame** is set to **Off**, the **Film Stabilization** feature will not be available (grayed out and set to **Off**).

Using the Film Stabilization feature

This feature helps to eliminate video shaking.

To turn on Film Stabilization:

- 1 Press **(MENU)** and open the **Picture** menu, highlight **Picture Settings** and press **(OK)**.
- 2 Highlight **Advanced Picture Settings** and press **(OK)**.
- 3 In the **Film Stabilization** field, select **Smooth**.
- 4 To save the new settings, highlight **Done** and press **(OK)**.
To revert to the factory defaults, highlight **Reset** and press **(OK)**.

Note:

- If you select one of the factory-set picture modes (**Sports**, **Standard**, **Movie** or **PC**) and then change the **Film Stabilization** setting, the picture mode automatically changes to Preference.
- When **ClearFrame** is set to **Off**, **Film Stabilization** will be grayed out and set to **Off** automatically.
- When slow motion video is present the unit will treat any scrolling text as **Film** and may cause a slight jitter of the scrolling text. Turning **Off** the **Film Stabilization** feature will correct this issue.

Using CableClear® digital noise reduction

The CableClear® digital noise reduction feature allows you to reduce visible interference in your TV picture. This may be useful when receiving a broadcast with a weak signal (especially a Cable channel) or playing a noisy video cassette or disc.

To change the CableClear settings:

- 1 Press **(MENU)** and open the **Picture** menu, highlight **Noise Reduction** and press **(OK)**.
- 2 In the **CableClear** field, select your desired setting.

Note:

- If the current input is **ANT/CABLE**, **VIDEO**, the menu will display the text "CableClear." The available selections are **Off**, **Low**, **Middle**, and **High**.
 - If the current input is **ColorStream HD**, **HDMI 1**, **HDMI 2**, **HDMI 3** or **HDMI 4**, the menu will display the text "DNR." The available selections are **Off**, **Low**, **Middle**, and **High**. **Low**, **Middle**, and **High** will reduce the noise in varying degrees, from lowest to highest, respectively.
- 3 To save the new settings, highlight **Done** and press **(OK)**.
To revert to the factory defaults, highlight **Reset** and press **(OK)**.

(continued)

Using MPEG noise reduction

The MPEG noise reduction feature allows you to reduce visible interference caused by MPEG compression. Choices for MPEG noise reduction are **Off**, **Low**, **Middle**, and **High**. **Off** is automatically selected when this feature is disabled (“grayed out”).

To select the MPEG noise reduction level:

- 1 Press **(MENU)** and open the **Picture** menu.
- 2 Highlight **Noise Reduction** and press **(OK)**.
- 3 Press **▲** or **▼** to highlight the **MPEG Noise Reduction** field, and then press **◀** or **▶** to select either **Off**, **Low**, **Middle** or **High**.
- 4 To save the new settings, highlight **Done** and press **(OK)**.
To revert to the factory defaults, highlight **Reset** and press **(OK)**.

Using the Game Mode feature

You can use the Game Mode feature for shorter frame delays when playing a video game requiring split-second timing between the on-screen display and input from the controller (such as music creation and high-action games).

This feature is more effective for 480i and 1080i input signals.

Note: To use the Game Mode feature, the current video input must be **Video**, **ColorStream HD**, **HDMI 1**, **HDMI 2**, **HDMI 3** or **HDMI 4**. The Game Mode cannot be turned on when any other video input is selected.

To turn on Game Mode:

- 1 Press **(MENU)** and open the **Picture** menu, highlight the **Game Mode**.
- 2 Press **◀** or **▶** to select **On**.

To turn off Game Mode:

Select **Off** in step 2 above, change the video input, or turn the TV off and then on again.

Note: You can change the video input by pressing **(INPUT)** on the remote control (see page 38).

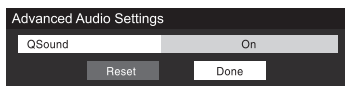
Using the advanced audio settings features

Using the QSound® sound feature

QSound® is the original name for a positional three-dimensional (3D) sound processing algorithm from QSound Labs that creates 3D audio effects from multiple monophonic sources and sums the outputs to two channels for presentation over regular stereo speakers.

To adjust the QSound® settings:

- 1 Put the TV in **STEREO** mode (see “Selecting stereo/SAP broadcasts” on page 48).
- 2 Press **(MENU)** and open the **Sound** menu.
- 3 Highlight **Advanced Audio Settings** and press **(OK)**.
- 4 Press **▼** or **▲** to highlight the QSound feature, and then press **◀** or **▶** to turn the QSound effect **On** or **Off**.



- 5 To save the new settings, highlight **Done** and press **(OK)**.
To revert to the factory defaults, highlight **Reset** and press **(OK)**.

Note: If the broadcast is monaural, the QSound effect will not work.

Chapter 8: Using the TV's network features

Using your home network

- This TV is a DLNA CERTIFIED™ Player. This TV can play digital content stored on a DLNA CERTIFIED™ product with server function. If you want to use this TV as a DLNA CERTIFIED™ Player, you will have to configure the network settings on your TV (see page 22).
- If you want to use your home network with an Internet connection, you will have to configure the network settings on your TV (see page 23). Change the network settings if necessary (see “Setting up the Network” on page 66).

If you use Internet services, see the following note before using it.

Note:

- Internet services are available only in the United States.
- Use of internet services requires a working broadband internet connection (1 to 2 Mbps for SD video, 2.25 to 4.5 Mbps for HD video and 4.5 to 9 Mbps for HDX video).
- VUDU and Netflix services are not provided by TOSHIBA, may change or be discontinued at any time and may be subject to restrictions imposed by your internet service provider. The quality, functionality, or availability of such services may be affected by the capacity of your Internet connection. Use of video-on-demand application Vudu and Netflix may require the creation of a separate account through a computer with internet access.
- Not all VUDU services may be available on or be compatible with this product.
- Video-on-demand of Vudu and Netflix may require payment of one-time and/or recurring charges.
- You are solely responsible for any charges incurred as a result of using internet-based content, including, without limitation, communications charges for the provision of internet or network services and any charges incurred for third-party internet content services, such as video on demand or subscription services. All third-party services are provided in accordance with whatever terms and conditions are established between such third-party providers and you.
- TOSHIBA MAKES NO REPRESENTATIONS OR WARRANTIES ABOUT THE CONTENT,

AVAILABILITY OR FUNCTIONALITY OF THE VUDU SERVICE OR OTHER INTERNET DELIVERED THIRD-PARTY SERVICES AND DOES NOT WARRANT THAT ANY OF THEM WILL BE UNINTERRUPTED, ERROR FREE OR SATISFACTORY. ANY IMPLIED WARRANTY, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF ANY THIRD PARTY CONTENT OR SERVICE, IS EXPRESSLY EXCLUDED AND DISCLAIMED. UNDER NO CIRCUMSTANCES WILL TOSHIBA BE LIABLE IN CONTRACT, TORT OR UNDER ANY OTHER THEORY FOR ANY DAMAGES ARISING OUT OF OR IN CONNECTION WITH YOUR USE OF ANY CONTENT OR SERVICE PROVIDED BY ANY THIRD PARTY, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

When you enjoy Internet services by wireless:

Wireless Interoperability:

- The Dual Band WLAN Adapter that is included is designed to be interoperable with any wireless LAN product that is based on Direct Sequence Spread Spectrum (DSSS) / Orthogonal Frequency Division Multiplexing (OFDM) radio technology, and is compliant to:
 - The IEEE 802.11a/b/g and IEEE 802.11n Standard, as defined and approved by the Institute of Electrical and Electronics Engineers and; may not be fully compatible with, or support some features (e.g., security) of certain Wi-Fi equipment.
 - The Wireless Fidelity (Wi-Fi®) certification as defined by the Wi-Fi Alliance®. The “Wi-Fi CERTIFIED™” logo is a certification mark of the Wi-Fi Alliance®.
- The included Dual Band WLAN Adapter is intended for use with 40UL605U, 46UL605U and 55UL605U only and should not be used with other devices. Use with other devices may result in damage to the wireless USB dongle and/or the other device. Such use will void any warranty that may otherwise apply and Toshiba will have no liability for any damage that may result from such use.

(continued)

Chapter 8: Using the TV's network features

Wireless Interoperability:

Wireless LAN products, like other radio devices, emit radio frequency electromagnetic energy. The level of energy emitted by Wireless LAN devices however is far much less than the electromagnetic energy emitted by wireless devices like for example mobile phones.

Because Wireless LAN products operate within the guidelines found in radio frequency safety standards and recommendations, TOSHIBA believes Wireless LAN is safe for use by consumers. These standards and recommendations reflect the consensus of the scientific community and result from deliberations of panels and committees of scientists who continually review and interpret the extensive research literature.

In some situations or environments, the use of Wireless LAN may be restricted by the proprietor of the building or responsible representatives of the organization. Such restriction may apply in environment where the risk of interference to other devices or services is perceived or identified as harmful.

If you are uncertain of the policy that applies on the use of wireless devices in a specific organization or environment, you are encouraged to ask for authorization to use the Wireless LAN device prior to turning on the equipment.

Using under wireless LAN environment:

Note:

- It is recommended to use IEEE 802.11a or IEEE 802.11n on 5 GHz for audio and SD video streaming.
- It is recommended to use IEEE 802.11n on 5 GHz for HD video streaming.
- It is recommended that the encoding rate of content of Video streaming is 20 Mps or less.
- It is not recommended to use 2.4 GHz for audio and video streaming.
- Content playback may be interrupted by surrounding various interference

Setting up the Network

You can select the Network Type.

- 1 From the **Setup** menu, highlight **Network Setup** and press **OK**.
- 2 Press **▲** or **▼** to highlight **Network Type**, and then press **◀** or **▶** to select **Wired** or **Wireless**.
Note: If the Dual Band WLAN Adapter is not connected, Wireless cannot be selected.
- 3 If you select **Wired**, see "Advanced Network Setup" on page 69.
If you select **Wireless**, see the next column.

Wireless Setup

Note:

- This feature is grayed out when the Dual Band WLAN Adapter is not connected or Network Type is set to Wired.
- Continued connection of AP (Access Point) is not guaranteed. The connection may be disconnected while watching TV.
- Do not remove the Dual Band WLAN Adapter while changing the settings of the wireless connection or communicating. There are 3 methods for wireless setup:

There are 3 methods for wireless setup:

• Easy Setup (WPS)

If AP corresponds to WPS, this can be used.

- WPS (Wi-Fi Protected Setup™) is standard designed to execute connection of wireless LAN equipment and setup of security easily. WPS will automatically configure all wireless settings.

• Assisted Setup (setup by using AP's notification information)

Network Name, Authentication, and Encryption are decided based on information from AP. You manually set Security Key.

• Manual Setup (to input all settings)

(continued)

Chapter 8: Using the TV's network features

Easy Setup using PBC (Push Button Configuration)

- 1 From the **Setup** menu, highlight **Network Setup** and press **OK**.
- 2 Press **▲** or **▼** to highlight **Wireless Setup**, and press **OK**.
- 3 Press **▲** or **▼** to highlight **Easy Setup**, and press **OK**.
- 4 Press **◀** or **▶** to select **PBC**.
- 5 Press **▼** to highlight **Start Scan**, and press **OK**.
- 6 When a window reporting that the setup succeeded appears, press **OK**.

To cancel searching for the AP:

Press **RETURN** while searching for the AP. A message will appear. Then press **◀** or **▶** to select **Yes** and press **OK**.

Easy Setup using PIN (Personal Identification Number)

- 1 From the **Setup** menu, highlight **Network Setup** and press **OK**.
- 2 Press **▲** or **▼** to highlight **Wireless Setup**, and press **OK**.
- 3 Press **▲** or **▼** to highlight **Easy Setup**, and press **OK**.
- 4 Press **◀** or **▶** to select **PIN**.
- 5 Press **▼** to highlight **Start Scan**, and press **OK**.
- 6 Press **▲** or **▼** to select the desired AP and press **OK**.
Note: If a Check the MAC address on label of the AP or the manual of it and select an AP.
- 7 When the PIN code window appears, enter the displayed PIN into your AP, and then press **OK** to start the PIN Setup. When a message displays to report that the setup was successful, press **OK**.

To cancel searching for the AP:

Press **RETURN** while searching for the AP. A message will appear. Then press **◀** or **▶** to select **Yes** and press **OK**.

Assisted Setup

- 1 From the **Setup** menu, highlight **Network Setup** and press **OK**.
- 2 Press **▲** or **▼** to highlight **Wireless Setup**, and press **OK**.
- 3 Press **▲** or **▼** to highlight **Assisted Setup**, and press **OK**.
- 4 Press **▲** or **▼** to select the desired AP and press **OK**.
Note: If a Check the MAC address on label of the AP or the manual of it and select an AP.
- 5 Highlight **Security Key** and press **OK**. The Software Keyboard window will appear.
- 6 Input the Security Key by using the Software Keyboard (see page 70). To save your setting, press the **BLUE** button.

Note:

- The Security Key must adhere to these conditions:
 - TKIP/AES: 8-63 ASCII or 64 Hex characters
 - WEP: 5 or 13 ASCII or 10 or 26 Hex characters
- Key ID of WEP encryption to set is only one.

- 7 Highlight **Done**, and then press **OK**.

Note: If Network Name is not displayed, see step 4 and 5 in Manual Setup (see the next column) to set Network Name before pressing Done.

*Note: Settings are not saved if **RETURN** is pressed before Done is selected.*

Manual Setup

- 1 From the **Setup** menu, highlight **Network Setup** and press **OK**.
- 2 Press **▲** or **▼** to highlight **Wireless Setup**, and press **OK**.
- 3 Press **▲** or **▼** to highlight **Manual Setup**, and press **OK**.
- 4 Press **▲** or **▼** to highlight **Network Name**, and press **OK**. The Software Keyboard window will appear.
- 5 Input the Network Name by using the Software Keyboard (see page 70). To save your setting, press the **BLUE** button.

(continued)

Chapter 8: Using the TV's network features

6 Press **▲** or **▼** to highlight **Authentication**, and then press **◀** or **▶** to select **Open System**, **Shared Key**, **WPA-PSK** or **WPA2-PSK**.

7 Press **▲** or **▼** to highlight **Encryption**, and then press **◀** or **▶** to select **None**, **WEP**, **TKIP** or **AES**.

Note:

- Certain encryption types are only compatible with specific authentication types.
 - When Authentication is Open System, only WEP or None is compatible.
 - When Authentication is Shared Key, only WEP is compatible.
 - When Authentication is WPA-PSK or WPA2-PSK, only TKIP or AES is compatible.
- When incompatible Authentication/Encryption pairings are attempted, a warning message will be displayed, and no connection attempt will be made until the incompatibility is resolved.
- Key ID of WEP encryption to set is only one.

8 Press **▲** or **▼** to highlight **Security Key**, and press **Ⓞ**. The Software Keyboard window will appear.

9 Input the Security Key by using the Software Keyboard (see page 70). To save your setting, press the **BLUE** button.

Note: This item is grayed out when **Encryption** is **None**.

10 Highlight **Done**, and then press **Ⓞ**.

Note: When **Encryption** is **None**, a message will appear. Press **◀** or **▶** to select **Yes** and press **Ⓞ**.

Note: Settings are not saved if **Ⓞ** is pressed before **Done** is selected.

Wireless Information

The settings configured in **Wireless Setup** can be confirmed.

1 Press **Ⓞ** and open the **Quick** menu.

2 Press **▲** or **▼** to select **Wireless Information**, and press **Ⓞ**.

3 When the AP connection succeeds, a Wireless Information window will appear.

Note: Press the **RED** button if you confirm the situation of surrounding APs.

Item	Description
Status	Connected is displayed when the TV is connecting with the AP. Disconnected is displayed when the TV is disconnecting with the AP.
Signal	Connection signal strength with AP (STRONG / MEDIUM / WEAK)
Speed	The link speed with AP
Mode	Working mode (11a, 11b, 11g, 11n)
Channel	A channel in use (1-165)
Network Name	SSID set
Authentication	Authentication set
Encryption	Encryption set
Security Key	Security Key set
AP MAC Address	The AP's MAC address is displayed when the TV is connecting with AP.
USB MAC Address	The MAC address of USB (Dual Band WLAN Adapter) is displayed.
DHCP	Enabled is displayed when you use DHCP. Disabled is displayed when you do not use DHCP.
IP Address	The TV's IP address
Subnet Mask	Value of the Subnet Mask
Default Gateway	Address of the Default GATEWAY
DNS	Address of the DNS

Note: Even if AP for IEEE 802.11n is used when **Encryption** is set to **WEP** or **TKIP**, the Speed value might be low. **Encryption** is recommended to be changed to **AES** (see left-hand column).

(continued)

Advanced Network Setup

Note:

- When the DHCP function of the router connected with this TV is **On**, you can set **Auto Setup** to On or Off. (Usually set it to On.)
- When the DHCP function of the router is Off, set **Auto Setup** to **Off**, and manually set IP Address or DNS Address.

IP Address Setup

Auto Setup:

- 1 From the **Setup** menu, highlight **Network Setup** and press **OK**.
- 2 Press **▲** or **▼** to highlight **Advanced Network Setup**, and press **OK**.
- 3 Press **▲** or **▼** to highlight **IP Address Setup**, and press **OK**.
- 4 Highlight **Auto Setup**, and then press **◀** or **▶** to select **On**.

Note: Other items will be grayed out when **Auto Setup** is set to **On**.

Manual Setup:

- 1 From the **Setup** menu, highlight **Network Setup** and press **OK**.
- 2 Press **▲** or **▼** to highlight **Advanced Network Setup**, and press **OK**.
- 3 Press **▲** or **▼** to highlight **IP Address Setup**, and press **OK**.
- 4 Highlight **Auto Setup**, and then press **◀** or **▶** to select **Off**.
- 5 Press **▲** or **▼** to highlight **IP Address**.
- 6 Press **◀** or **▶** to highlight the field you want to change, and then use the number buttons to input the IP address. To save the setting, press **OK**.

Note: IP address field numbers must be between 0 and 255. If you input an incompatible number and press **OK**, the field number will reset to the previous value.

- 7 Press **▲** or **▼** to highlight **Subnet Mask**, and edit in the same way as IP Address.
- 8 Press **▲** or **▼** to highlight **Default Gateway**, and edit in a way same as IP Address.

Note: If you manually set the IP address, you must not use the same IP address for any other device. The IP address you use should be a private

address. If you do not know the correct values to use, please contact your network administrator or internet service provider.

DNS Setup

Note: When the DHCP function of the router connected to this TV is Off, set **Auto Setup** to **Off**, and manually set the DNS address(es). Your internet service provider should have provided these to you.

Auto Setup:

- 1 From the **Setup** menu, highlight **Network Setup** and press **OK**.
- 2 Press **▲** or **▼** to highlight **Advanced Network Setup**, and press **OK**.
- 3 Press **▲** or **▼** to highlight **DNS Setup**, and press **OK**.
- 4 Highlight **Auto Setup**, and then press **◀** or **▶** to select **On**.

Note: Other items will be grayed out when **Auto Setup** is set to **On**.

Manual Setup:

- 1 From the **Setup** menu, highlight **Network Setup** and press **OK**.
- 2 Press **▲** or **▼** to highlight **Advanced Network Setup**, and press **OK**.
- 3 Press **▲** or **▼** to highlight **DNS Setup**, and press **OK**.
- 4 Highlight **Auto Setup**, and then press **◀** or **▶** to select **Off**.
- 5 Press **▲** or **▼** to highlight **Primary DNS Address**.
- 6 Press **◀** or **▶** to highlight the field you want to change, and then use the number buttons to input the Primary DNS Address. To save the setting, press **OK**.

Note: DNS address field numbers must be between 0 and 255. If you input an incompatible number and press **OK**, the field number will reset to the previous value.

- 7 Press **▲** or **▼** to highlight **Subnet Mask**, and edit in the same way as IP Address.
- 8 Press **▲** or **▼** to highlight **Secondary DNS Address**, and edit in a way as Primary DNS Address.

(continued)

Chapter 8: Using the TV's network features

MAC Address

You can view the fixed MAC address for the TV and for the Dual Band WLAN Adapter, if one is installed.

- 1 From the **Setup** menu, highlight **Network Setup** and press **OK**.
- 2 Press **▲** or **▼** to highlight **Advanced Network Setup**, and press **OK**.
- 3 Press **▲** or **▼** to highlight **MAC Address**, and press **OK**.

Network Connection Test

This function checks the Internet connectivity.

- 1 From the **Setup** menu, highlight **Network Setup** and press **OK**.
- 2 Press **▲** or **▼** to highlight **Network Connection Test**, and press **OK**.

Note: A message will appear to indicate if the connection was successful or if it could not be completed.

Note: The result of Network Connection Test does not always guarantee the connection. Depending on the situation, VUDU or Netflix may not be able to be used.

To cancel the Network Connection Test:

Press **EXIT** while searching for the Internet connection.

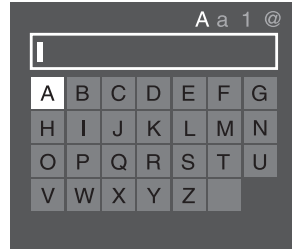
Using the software keyboard

You can enter text by using the Software Keyboard. The Software Keyboard window will appear when you press **OK** on a field that accepts character input.

To enter text using the software keyboard:

- 1 Highlight the desired character on the on-screen software keyboard.
- 2 Press **OK**.
- 3 Repeat steps 1 and 2 until you have entered all desired text.
- 4 Press the **BLUE** button to close the software keyboard and return to the previous screen.

Note: If **RETURN** is pressed, changes are not saved and the software keyboard window is closed. The text will remain as it was before starting the keyboard.



Input operation on the remote control:

Button	Description
OK	Inputs the selected character.
0-9	Inputs the number directly.
▲▼◀▶	Moves the character highlight.
◀▶▶▶	Moves the cursor.
◀◀	Moves the cursor to the head of a character string.
▶▶	Moves the cursor to the end of a character string.
RED	Deletes 1 character to the left of the cursor.
GREEN	Cycles through upper case, lower case, numbers, and symbols, if available.
YELLOW	Chooses an accented version of the current letter, if applicable.
BLUE	Saves changes and closes the Software Keyboard window.
RETURN	Closes the Software Keyboard window without saving changes.

(continued)

Chapter 8: Using the TV's network features

Performing a Software Upgrade

TOSHIBA may offer upgrades for the TV's software in the future. The TV's software is upgraded via the Network.

Before downloading software;

Configure your TV to connect to the Internet.

Note: While the upgrade is being performed, you will not be able to watch the TV.

- 1 From the **Setup** menu, highlight **Software Upgrade** and press **OK**.
- 2 **Network Upgrade** is displayed. Press **OK**.
Note: If the network is not available, a warning message will appear.
- 3 The TV software upgrade will start when download succeeds.

Using the Widgets feature

The Widgets feature allows you to easily access certain websites.

Note:

- You need to configure a home network before using this feature (see page 23).
- If **Network Lock** is set to **On**, it will be necessary to enter your four-digit PIN code in order to access network features.

- 1 From the **Applications** menu or press **WIDGETS** on the remote control, highlight **Widgets** and press **OK**. The Widgets display will appear.
- 2 Press **▲**, **▼**, **◀** or **▶** to select the widget you want to access, and press **OK**.

To close the Widgets display:

Press **EXIT**.

VUDU™

VUDU™ is an on-demand service that offers high-definition movies on the Web.

You can access the VUDU service by the following methods:

From the **Applications** menu or press **WIDGETS**, highlight **VUDU** and press **OK**.

To deactivate your device:

This feature allows you to deactivate VUDU service.

- 1 From the **Setup** menu, highlight **VUDU Deactivation** and press **OK**.
- 2 Press **◀** or **▶** to select **Yes**, and press **OK**.

Netflix

Netflix is an on-demand service that offers high-definition movies on the Web.

You can access the Netflix service by the following methods:

From the **Applications** menu or press **WIDGETS**, highlight **Netflix** and press **OK**.

To deactivate your device:

This feature allows you to deactivate Netflix service.

- 1 From the **Setup** menu, highlight **Netflix Deactivation** and press **OK**.
- 2 Press **◀** or **▶** to select **Yes**, and press **OK**.

Chapter 9: Troubleshooting

General troubleshooting

Before calling a service technician, please check this chapter for a possible cause of the problem and some solutions you can try.

Black box on-screen

- The closed caption feature is set to one of the Text modes (T1, T2, T3, or T4). Set the closed caption feature to **Off** (☞ page 46).

TV stops responding to controls

- If the TV stops responding to the controls on the remote control or TV control panel and you cannot turn off the TV, please unplug the power cord few seconds then re-plug to try again.

Other problems

- If your TV's problem is not addressed in this Troubleshooting section or the recommended solution has not worked, use the Restore Factory Defaults procedure (☞ page 37).

TV will not turn on

- Make sure the power cord is plugged in, and then press **POWER** (☞).
- The remote control batteries may be dead. Replace the batteries or try the control panel buttons.

Picture problems

General picture problems

- Check the antenna/cable connections (☞ Chapter 2).
- Press **(INPUT)** on the remote control or TV and select a valid video input source (☞ page 38). If no device is connected to a particular input on the TV, no picture will display when you select that particular input source. For device connection details, see Chapter 2.
- Antenna reception may be poor. Use a highly directional outdoor antenna (if applicable).
- The station may have broadcast difficulties. Try another channel.
- Adjust the picture qualities (☞ page 46).

Noisy picture

- If you are watching an analog channel (off-air broadcast or Cable TV), you can set the **CableClear®** feature to reduce visible interference in the TV picture (☞ page 63).

Video Input Selection problems

- If the **Input Selection** window does not appear when you press **(INPUT)** on the remote control or TV, press **(INPUT)** a second time, which will change to the next video input source and display the **Input Selection** window.

Cannot view external signals or channel 3 or 4

- If you cannot view signals from external devices connected to **VIDEO**, **ColorStream® HD**, **HDMI 1**, **HDMI 2**, **HDMI 3**, **HDMI 4**, **PC** or from channels 3 or 4, make sure the **Input Lock** is set to **Off** (☞ page 52).

Poor color or no color

- The station may have broadcast difficulties. Try another channel.
- Adjust the **Tint** and/or **Color** (☞ page 46).

Poor composite picture

- If the TV is connected to an external A/V device (e.g., DVD player, video game system, set-top box, etc.) try using a **ColorStream** or **HDMI** video connection instead.

Picture and sound are out of sync

- As with all products that contain a digital display, in rare instances, when viewing certain content (e.g., television broadcasts, video games, DVDs), you may notice that the sound and picture are slightly out of sync. This phenomenon can be caused by various factors including, without limitation, video processing within the TV, video processing in an attached gaming system, and video processing or different compression rates used by broadcasters in their programming. You may want to try one or more of the following suggestions, which may help to reduce the effect of this phenomenon:
 - If the TV is connected to an A/V receiver that has a programmable audio delay feature, use this feature to help synchronize the sound to the picture.
 - If you notice this phenomenon only on certain TV channels, please contact your local broadcast, cable, or satellite provider to inform them of this issue.

Scrolling text problem

- When slow motion video is present the unit will treat any scrolling text as Film and may cause a slight jitter of the scrolling text. Turning Off the **Film Stabilization** feature will correct this issue. (☞ page 63)

Chapter 9: Troubleshooting

Sound problems

- Check the antenna/cable connections (see Chapter 2).
- The station may have broadcast difficulties. Try another channel.
- The sound may be muted. Press **VOLUME**.
- If you hear no sound, try setting the **MTS** feature to **Stereo** mode (see page 48).
- If you are not receiving a second audio program from a known SAP source, make sure the **MTS** feature is set to **SAP** mode (see page 48).
- If you hear audio that seems “incorrect” for the program you are watching (such as music or a foreign language), the SAP mode may be on. Set the **MTS** feature to **Stereo** mode (see page 48).

Remote control problems

- Make sure the remote control is set to the correct device mode (see page 26).
- Remove all obstructions between the remote control and the TV.
- The remote control batteries may be dead. Replace the batteries (see page 24).
- Your TV remote control may not operate certain features on your external device. Refer to the owner’s manual for your other device to determine its available features. If your TV remote control does not operate a specific feature on another device, use the remote control that came with the device (see pages 26–30).
- If the TV still does not act as expected, use the Reset Factory Defaults procedure (see page 37).

Channel tuning problems

- Make sure the remote control is set to the correct device mode (see page 25).
- The channel may have been erased from the channel memory by the **Programming channels automatically** feature. Add the channel to the channel memory (see page 34).
- The channel may be blocked by the **LOCK** feature. Unblock the channel (see page 50).
- If you are unable to tune digital channels, check the antenna configuration (see page 34). If you are still unable to tune digital channels, clear all channels from the channel list and reprogram channels into the channel memory (see page 34). If you are still unable to tune digital channels, use the Reset Factory Defaults procedure (see page 37). Also see “TV stops responding to controls” and “Other problems” (see page 72).

Closed caption problems

- If the program or video you selected is not closed-captioned, no captions will display (see page 46).
- If text is not available, a black rectangle may appear. If this happens, turn off the closed caption feature (see page 46).
- A closed-caption signal may not display correctly in the following situations: a) when a videotape has been dubbed; b) when the signal reception is weak; or c) when the signal reception is nonstandard (see page 46).

Rating blocking (V-Chip) problems

- If you forget your PIN code: While the PIN code entering screen is displayed, press **⏏** four times within 5 seconds. The PIN code you previously stored will be cleared (see page 49).

No REGZA-LINK operation

- The REGZA-LINK feature is available for Toshiba REGZA-LINK compatible devices.
- Make sure the HDMI cables with the HDMI Logo (**HDMI**) are used.
- When the connected REGZA-LINK device does not work correctly after you have changed settings of the device, turn off your TV and unplug the power cord, then plug and turn on again.
- If several devices are connected, REGZA-LINK feature may not operate properly.
- Read the instruction manual furnished with the connected REGZA-LINK device.

HDMI problems

For HDMI cables

- Make sure to use cables with the HDMI Logo (**HDMI**) (see page 15).

Network problems

Cannot connect to network

- Check the modem and splitter connections (see pages 22–23).
- Check the Dual Band WLAN Adapter connections (see page 23).
- Make sure the splitter is connected to the modem or LAN port correctly (see pages 22–23).
- Confirm your modem’s operation.
- Make sure your network address is set up correctly.

No network connection

- The LAN cables are not connected properly or at all. Connect all cables (☞ pages 22–23).
- Make sure the modem's power cord is plugged in.
- Make sure your network address is set up correctly (☞ "Setting up the Network").

Network Setup fails (Auto)

- The LAN cables are not connected properly or at all. Connect all cables.
- The DHCP service is not enabled on the router, or no router is present. Refer to your router's documentation for instructions on enabling DHCP. If you do not have a router, you must manually set up the network address.
- Internet service is not available. Check your cable/DSL modem or contact your ISP for Internet service issues.

Network Setup fails (Manual)

- The TV IP address is the same as the networked PC's. The TV IP address must be different from the PC's IP address.
- The TV IP address is not on the same subnet as the networked PC's. For example, if the PC has IP 192.168.0.100 with netmask 255.255.255.0, and the TV has IP 192.168.0.200 with netmask 255.255.255.0, then they are both on same subnet. Conversely, if the PC has IP 192.168.1.100 with netmask 255.255.255.0, and the TV has IP 192.168.0.200 with netmask 255.255.255.0, then they are on DIFFERENT sub-nets.

Unstable network connection

- Unplug the Ethernet cables, and then connect them again.

The "Server" name is not displayed

- The LAN cables are not connected properly or at all. Connect all cables (☞ pages 22–23).
- The network setup on the Server is incorrect. Make sure both the Server and TV are using the same network type (DHCP/manual) and have compatible network settings.
- Too many sharing devices are connected. You cannot connect more than 32 sharing devices at one time.

Wireless network problems

- Make sure the Dual Band WLAN Adapter connection (☞ page 23).
- Check that the power of AP is On.
- After starting wireless network setup, confirm that the window that the wireless constitution was completed successfully appears.
- Check the AP's connection status (☞ page 68).
- If the AP does not correspond to the PBC of WPS, Easy Setup (PBC) cannot set even if its push-button is pressed.

- If AP list is not displayed in Easy Setup (PIN) or Assisted Setup, the power of AP may be Off. Check that it is On, and then try starting the AP scan.
- Read the AP's instruction manual.

Media Player problems

- Make sure that devices are connected correctly.
- Incorrect behavior may occur with a USB HUB connection.
- A size of pictures stored in the DLNA recognition server may be automatically changed by the DLNA recognition servers end and displayed.
- Photo files that was processed and edited by using the PC's application software may not be able to be viewed.
- The TV may select one format automatically and play it when contents that support two or more formats are played.
- Copyright protection contents stored in the DLNA recognition server may not be able to be played.
- Contents may not be played with stability by traffic (degree and congestion of the data transmission) on the network etc.
- Contents that PC originally recorded may not be able to be played correctly.
- Set the access limitation of the DLNA recognition server correctly according to the manual of the DLNA recognition server.
- Confirm contents of the DLNA server and the USB storage device are formats that correspond with this TV (☞ page 54 and page 56).
- Depending on the DLNA recognition server, it may take time to display the list.
- Depending on the DLNA recognition server, the access may be limited by the MAC address. Set it correctly according to the DLNA recognition server's manual. This TV's MAC Address can be confirmed at **MAC address** (☞ page 70).

Chapter 10: Appendix

Specifications

Note:

- ***This model complies with the specifications listed below.***
- ***Designs and specifications are subject to change without notice.***
- ***This model may not be compatible with features and/or specifications that may be added in the future.***

Television System

NTSC standard
ATSC standard (8VSB)
Digital Cable (64 QAM, 256 QAM; in-the-clear, unencrypted)

Channel Coverage

VHF: 2 through 13
UHF: 14 through 69
Cable TV:
Mid band (A-8 through A-1, A through I)
Super band (J through W)
Hyper band (AA through ZZ, AAA, BBB)
Ultra band (65 through 94, 100 through 135)

Power Source: 120 V AC, 60 Hz

Power Maximum Current

40UL605U: 1.10 A
46UL605U: 1.15 A
55UL605U: 1.40 A

Power Consumption

40UL605U: 0.6 W in standby mode
46UL605U: 0.6 W in standby mode
55UL605U: 0.6 W in standby mode

Audio Power:

10 W + 10 W

Speaker Type:

Two 7/8 × 5-3/4 inches (22 × 146 mm)

Video/Audio Terminals

VIDEO/AUDIO INPUT:

VIDEO: 1 V(p-p), 75 ohm, negative sync.
AUDIO: 200 mV(rms) (-20dBFS)

ColorStream® (component video) HD INPUT:

VIDEO: Y: 1V(p-p), 75 ohm
Pr: 0.7 V(p-p), 75 ohm
Pb: 0.7 V(p-p), 75 ohm
Suggested formats: 1080i, 720p, 480p, 480i
AUDIO: 200 mV(rms), 47 k ohm or greater

HDMI® INPUT:

HDMI compliant (type A connector)
HDCP compliant
Suggested formats: See table on the next page.
HDMI Audio: 2-channel Linear-PCM;
32/44.1/48 kHz
sampling frequency; 16/20/24
bits per sample

DIGITAL AUDIO OUTPUT:

Optical type

PC INPUT:

15-Pin D-sub Analog RGB

Dimensions

40UL605U:

Width: 3'1-7/8 inches (961mm)
Height: 2'1-1/4 inches (641.37mm)
Depth: 8-5/8 inches (220.24mm)

46UL605U:

Width: 3'7 inches (1093.5mm)
Height: 2'4-1/8 inches (715.76mm)
Depth: 10-1/8 inches (257.64mm)

55UL605U:

Width: 4'2-5/8 inches (1287mm)
Height: 2'8-1/2 inches (824.4mm)
Depth: 1'-1/4 inches (311.24mm)

Mass (Weight)

40UL605U: 32.0 lbs (14.5 kg)
46UL605U: 39.7 lbs (18.0 kg)
55UL605U: 52.9 lbs (24.0 kg)

Operating conditions

Temperature: 32°F - 95°F (0°C - 35°C)
Humidity: 20 - 80% (no moisture condensation)

Supplied Accessories

- Remote control with two size “AAA” batteries
- Owner’s manual (this book)
- Dual Band WLAN Adapter (WLM-10U1)

Standard	IEEE 802.11a/b/g/n
Host Interface	USB2.0 compatible
Frequency Range	5.15-5.35 GHz, 5.47-5.725 GHz, 5.725-5.850 GHz, 2.412-2.462 GHz
Security	WEP64/128, TKIP, AES, WPA/WPA2-PSK, WPS, None

- 3D USB connector (40UL605U only)

Acceptable signal formats for PC IN and HDMI terminals

PC IN signal formats

Note: Depending on the connected PC, the following status may occur; incorrect display, false format detection, picture position failure, blur, or judder. But this is not a malfunction of your TV.

Format	Resolution	V. Frequency	H. Frequency	Pixel Clock Frequency
VGA	640 × 480	59.940Hz	31.469kHz	25.175MHz
SVGA	800 × 600	60.317Hz	37.879kHz	40.000MHz
XGA	1024 × 768	60.004Hz	48.363kHz	65.000MHz
WXGA	1280 × 768	59.870Hz	47.776kHz	79.500MHz
	1360 × 768	60.015Hz	47.712kHz	85.500MHz
SXGA	1280 × 1024	60.020Hz	63.981kHz	108.000MHz

HDMI signal formats

Format	Resolution	V. Frequency	H. Frequency	Pixel Clock Frequency
VGA	640 × 480	59.940Hz	31.469kHz	25.175MHz
SVGA	800 × 600	60.317Hz	37.879kHz	40.000MHz
XGA	1024 × 768	60.004Hz	48.363kHz	65.000MHz
WXGA	1280 × 768	59.870Hz	47.776kHz	79.500MHz
	1360 × 768	60.015Hz	47.712kHz	85.500MHz
SXGA	1280 × 1024	60.020Hz	63.981kHz	108.000MHz
480i	720 × 480i	59.940Hz	15.734kHz	27.000MHz
480p	720 × 480p	59.940Hz	31.469kHz	27.000MHz
720p	1280 × 720p	60.000Hz	45.000kHz	74.250MHz
1080i	1920 × 1080i	60.000Hz	33.750kHz	74.250MHz
1080p	1920 × 1080p	24.000Hz	27.000kHz	74.250MHz
1080p	1920 × 1080p	60.000Hz	67.500kHz	148.500MHz

Limited United States Warranty for LCD Televisions

Toshiba America Consumer Products, L.L.C. ("TACP") makes the following limited warranties to original consumers in the United States.

THESE LIMITED WARRANTIES EXTEND TO THE ORIGINAL CONSUMER PURCHASER OR ANY PERSON RECEIVING THIS LCD TELEVISION AS A GIFT FROM THE ORIGINAL CONSUMER PURCHASER AND TO NO OTHER PURCHASER OR TRANSFEREE. LCD TELEVISIONS PURCHASED IN THE U.S.A. AND USED ANYWHERE OUTSIDE OF THE U.S.A., INCLUDING, WITHOUT LIMITATION, CANADA AND MEXICO, ARE NOT COVERED BY THESE WARRANTIES. LCD TELEVISIONS PURCHASED ANYWHERE OUTSIDE OF THE U.S.A., INCLUDING, WITHOUT LIMITATION, CANADA AND MEXICO, AND USED IN THE U.S.A., ARE NOT COVERED BY THESE WARRANTIES.

Limited One (1) Year Warranty on Parts and Labor

TACP WARRANTS THIS LCD TELEVISION AND ITS PARTS AGAINST DEFECTS IN MATERIALS OR WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF ORIGINAL RETAIL PURCHASE. DURING THIS PERIOD, TACP WILL, AT TACP'S SOLE DISCRETION, REPAIR OR REPLACE A DEFECTIVE PART/PRODUCT WITH A NEW OR REFURBISHED PART/PRODUCT WITHOUT CHARGE TO YOU FOR PARTS OR LABOR. ANY PART OR PRODUCT REPLACED UNDER THIS LIMITED WARRANTY BECOMES THE PROPERTY OF TACP. IN SOME CASES, YOU MAY BE RESPONSIBLE FOR DELIVERING THE PRODUCT TO A SERVICE CENTER.

Rental Units

Warranty period begins on the date of the first rental or thirty (30) days after the date of shipment to the rental firm, whichever comes first.

Limited Warranty for Commercial Units

TACP warrants parts and labor for LCD Televisions that are sold and used for commercial purposes for a period of ninety (90) days after the date of original retail purchase. This warranty is void if the product is exposed to excessive temperature (heat/cold), moisture as outlined in the product's specification listed in the Owner's manual as well as exposure to excessive smoke, dust, or other airborne contaminants. All exclusions outlined in paragraph (4) and (5) under the "Your Responsibilities" section apply to commercial use.

Your Responsibility

Read the owner's manual thoroughly before operating this LCD Television.

Complete and mail the enclosed product registration card or register your LCD Television online at **www.tacp.toshiba.com/service**. Registration of your LCD Television will enable TACP to contact you in the unlikely event a safety notification is required under the U.S. Consumer Product Safety Act. **Failure to complete and return the product registration card does not diminish your warranty rights.**

THE ABOVE WARRANTIES ARE SUBJECT TO THE FOLLOWING CONDITIONS:

This Limited Warranty is extended only to the original purchaser and only covers product purchased as new.

- (1) A purchase receipt or other proof of the original purchase date is required for Warranty service.
- (2) All warranty servicing of this LCD Television must be performed by an Authorized TACP Service Station.
- (3) The warranties from TACP are effective only if this LCD Television is purchased and operated in the U.S.A. or Puerto Rico.
- (4) Removal and reinstallation of product that is mounted in such a manner as to impede normal service is not covered under these warranties. This includes wall mounts, custom cabinets and other installation methods that do not provide for direct and immediate access to the product for service purposes. Labor service charges for set installation, setup, adjustment of customer controls, and installation or repair of antenna, satellite or cable systems are not covered by this warranty. Reception problems caused by inadequate antenna systems, misaligned satellite dishes or improperly installed cable drops are your responsibility.
- (5) Warranties extend only to defects in materials or workmanship as limited above, and do not extend to any LCD Television or parts that have been lost or discarded by you or to damage to the LCD Television or parts caused by fires, misuse, abuse, accident, Acts of God (such as lightning or fluctuations in electric power), improper installation, improper maintenance, or use in violation of instructions furnished by TACP; use or malfunction through simultaneous use of this LCD Television and connected equipment; or to units that have been modified or had the serial number removed, altered, defaced, or rendered illegible.
- (6) Products purchased "AS-IS" or "With known faults, defects or problems" are not covered by this limited warranty. Product previously owned or registered by a consumer and resold is not covered by this limited warranty.
- (7) Product that is refurbished and resold is not covered under this warranty.

How to Obtain Warranty Service

If, after following all of the operating instructions in this manual, review the section entitled "Concierge" located on our Customer Support Web site "**www.tacp.toshiba.com/customersupport**".

If you find that service is needed, follow the instructions provided on the web site or please contact TACP's Consumer Solution Center toll free at 1-800-631-3811. You must present upon request your original bill of sale or other proof of purchase including the serial number for in warranty service.

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TO THE REPAIR OR REPLACEMENT OF ANY PARTS. IN NO EVENT SHALL TACP BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, LOST PROFITS, BUSINESS INTERRUPTION, OR MODIFICATION OR ERASURE OF RECORDED DATA CAUSED BY USE, MISUSE OR INABILITY TO USE THIS LCD TELEVISION).

No person, agent, distributor, dealer or company is authorized to change, modify or extend the terms of these warranties in any manner whatsoever. The time within which an action must be commenced to enforce any obligation of TACP arising under the warranty or under any statute, or law of the United States or any state thereof, is hereby limited to ninety (90) days from the date you discover or should have discovered, the defect. This limitation does not apply to implied warranties arising under the law of any state of the U.S.A.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH MAY VARY FROM STATE TO STATE IN THE U.S.A. SOME STATES OF THE U.S.A. DO NOT ALLOW LIMITATIONS ON THE DURATION OF AN IMPLIED WARRANTY, WHEN AN ACTION MAY BE BROUGHT, OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES. THEREFORE, THE ABOVE PROVISIONS MAY NOT APPLY TO YOU UNDER SUCH CIRCUMSTANCES.

Limited Canadian Warranty for Toshiba Brand Flat Panel Televisions

Toshiba of Canada Limited ("TCL") makes the following limited warranties to original consumers in Canada. THESE LIMITED WARRANTIES EXTEND TO THE ORIGINAL CONSUMER PURCHASER OR ANY PERSON RECEIVING THIS TOSHIBA BRAND FLAT PANEL TELEVISION (the "TELEVISION(S)" or "Television(s)") AS A GIFT FROM THE ORIGINAL CONSUMER PURCHASER AND TO NO OTHER PURCHASER OR TRANSFEREE.

TELEVISIONS PURCHASED IN CANADA, AND USED ANYWHERE OUTSIDE OF CANADA INCLUDING, WITHOUT LIMITATION, THE UNITED STATES AND MEXICO, ARE NOT COVERED BY THESE WARRANTIES.

TELEVISIONS PURCHASED ANYWHERE OUTSIDE OF CANADA, INCLUDING, WITHOUT LIMITATION, THE UNITED STATES AND MEXICO, AND USED IN CANADA, ARE NOT COVERED BY THESE WARRANTIES.

Limited One (1) Year Warranty on Parts and Labour

TCL warrants the Television and its parts against material defects in materials or workmanship that result in the Television failing for a period of one (1) year after the date of original retail purchase. DURING THIS PERIOD, TCL WILL, AT TCL'S OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR RECERTIFIED PART WITHOUT CHARGE TO YOU FOR PARTS OR LABOUR.

Rental Units

The warranty for Television rental units begins with the date of first rental or thirty (30) days from the date of shipment to the rental firm, whichever comes first.

Your Responsibility

Read the owner's manual thoroughly before operating this LCD Television. Complete and mail the enclosed product registration card or register your LCD Television online at <http://support.toshiba.ca/warranty/>. Registration of your LCD Television will enable TCL to contact you in the unlikely event of a product safety notice. Failure to complete the product registration does not diminish your warranty rights.

THE ABOVE WARRANTIES ARE SUBJECT TO THE FOLLOWING CONDITIONS:

- (1) You must provide your bill of sale or other proof of purchase.
- (2) All warranty servicing of this Television must be performed by a Toshiba Authorized Service Provider (ASP).
- (3) The warranties from TCL are effective only if the Television is (i) purchased as new and unopened from TCL or from TCL's authorized distributors, dealers or resellers ("ADR's") and (ii) located/operated in Canada.
- (4) Removal and reinstallation of product that is mounted in such a manner as to impede normal service is not covered under these warranties. This includes wall mounts, custom cabinets and other installation methods that do not provide for direct and immediate access to the product for service purposes. Labour charges for set installation, setup, adjustment of customer controls, and installation or repair of antenna systems are not covered by these warranties. Reception problems caused by inadequate antenna systems are your responsibility.
- (5) Warranties extend only to material defects in materials or workmanship as limited above, and do not extend to:
 - a. Service, repairs or replacement made necessary by accident, misuse, abuse, moisture, liquids, dust, dirt, neglect, accident, damage, 24/7 applications, improper installation, improper operation, improper cleaning, improper maintenance, normal wear and tear, screen burn or image retention caused by prolonged display of static images and/or phosphor aging, or any other external cause or event, act or omission outside the control of TCL, including fire, theft, acts of God, alteration, power failures, power surges or power shortages, lightning, other electrical faults, or repairs, modifications or replacements by persons other than those authorized by TCL to service the Television;
 - b. Replacement of missing, discarded or lost parts, the provision of retrofits, or preventive maintenance;
 - c. Repair of damage that is cosmetic only or does not affect the Television functionality, such as wear and tear, scratches and dents;
 - d. Service on Toshiba-branded accessory items (such accessory items may be covered by their own warranty);
 - e. Service on third party products or service made necessary by use of incompatible third party products;
 - f. Service made necessary by the simultaneous use of this Television and connected equipment;
 - g. Modifications to the Television not approved in writing by TCL, and service made necessary by the use or installation of non-Toshiba modifications to the Television;

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- h. Service of a Television on which the TOSHIBA label or logo, rating label or serial number have been defaced or removed;
- i. Damage to the Television caused by failure to follow the specifications, User manuals or guides as to usage and/or storage.
- j. Firmware updates that are posted to the Toshiba Support website and can be performed by the end user via a USB stick or SD card type media.

Disclaimer and Limitation of Remedy

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YOU MUST READ AND FOLLOW ALL SET-UP AND USAGE INSTRUCTIONS IN THE APPLICABLE USER GUIDES AND/OR MANUALS. IF YOU FAIL TO DO SO, THIS TELEVISION MAY NOT FUNCTION PROPERLY AND YOU MAY SUFFER DAMAGE. THIS WARRANTY WILL NOT COVER ANY SERVICE THAT IS REQUIRED, IN PART OR IN WHOLE, AS A RESULT OF ANY FAILURE TO FOLLOW THE SET-UP AND USAGE INSTRUCTIONS. THIS WARRANTY DOES NOT APPLY AND SHALL BE VOID AND UNENFORCEABLE IF THE TELEVISION IS OPENED, SERVICED, OR REPAIRED BY PERSONS OTHER THAN THOSE AUTHORIZED BY TCL TO SERVICE OR REPAIR THE TELEVISION.

IF THE TELEVISION FAILS TO WORK AS WARRANTED ABOVE, YOUR SOLE AND EXCLUSIVE REMEDY SHALL BE REPAIR OR REPLACEMENT OF THE DEFECTIVE PART. IN NO EVENT WILL TCL, TOSHIBA CORPORATION, THEIR AFFILIATES, ADRs OR ASPs (THE "RELATED PARTIES") BE LIABLE TO YOU OR ANY THIRD PARTY FOR ANY DAMAGES, MONEY, REIMBURSEMENT, COSTS OR EXPENSES. THIS LIMITATION APPLIES TO DAMAGES, MONEY, REIMBURSEMENT, COSTS OR EXPENSES OF ANY KIND WHATSOEVER INCLUDING ANY DIRECT OR INDIRECT DAMAGES, DAMAGE TO PROPERTY OR PERSON, LOST PROFITS, LOST SAVINGS, INCONVENIENCE OR OTHER SPECIAL, INCIDENTAL, EXEMPLARY OR CONSEQUENTIAL DAMAGES, WHETHER FOR BREACH OF WARRANTY, BREACH OF CONTRACT, TORT (INCLUDING NEGLIGENCE), UNDER A STATUTE OR UNDER ANY OTHER LAW OR FORM OR ACTION, OR WHETHER ARISING OUT OF

THE USE OF OR INABILITY TO USE THE TELEVISION, EVEN IF ANY OF THE RELATED PARTIES HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES OR OF ANY CLAIM BY ANY OTHER PARTY.

No person, agent, distributor, dealer or company is authorized to change, modify or extend the terms of these warranties in any manner whatsoever.

Arbitration and Dispute Resolution

To the extent not precluded by law, any claim, dispute, controversy or disagreement (whether for breach of warranty, breach of contract, tort (including negligence), under a statute or under any other law or form of action) against any of the Related Parties arising out of, or otherwise relating to: (i) this warranty; (ii) the Television; (iii) any oral or written representations, statements, brochures, press releases, advertising, announcement, point of sale display, or promotional material relating to the Television; (iv) the relationships that result from this warranty, (the foregoing claims, disputes controversies and disagreements are collectively referred to as the "Dispute"), shall be referred to and resolved by final and binding arbitration (to the exclusion of the courts). To the extent not precluded by law, you agree to waive any right that you may have to commence or participate in any representative or class proceeding against the Related Parties relating to any Dispute. If and where applicable and to the extent not precluded by law, you further agree to opt out of any such representative or class proceedings. Arbitration of any Dispute will be conducted in the forum and in the manner as agreed to between you and TCL. Failing such agreement, the arbitration will be conducted by one arbitrator pursuant to the laws and rules relating to arbitration generally in force in the jurisdiction in which you reside at the time that the Dispute arises. To the extent not precluded by law, no claim, dispute, controversy or disagreement of any other person may be joined or combined with any Dispute by you, without the prior written consent of TCL.

Critical Applications

The Television you have purchased is not designed for any "critical applications." "Critical applications" means life support systems, medical applications, connections to implanted medical devices, commercial transportation, nuclear facilities or systems or any other applications where Television failure could lead to injury to persons or loss of life or catastrophic property damage.

IF THE CUSTOMER USES THE TELEVISION IN ANY CRITICAL APPLICATION, THE CUSTOMER – AND NOT TCL, ITS AFFILIATES, ADRs OR ASPs – ASSUME SOLE AND FULL RESPONSIBILITY FOR SUCH USE. TCL RESERVES THE RIGHT TO REFUSE TO SERVICE ANY TELEVISION USED IN A CRITICAL APPLICATION. TCL, ITS AFFILIATES, ADRs AND ASPs HEREBY DISCLAIM ANY AND ALL LIABILITY, DAMAGES AND CONSEQUENCES ARISING OUT OF THE SERVICE OR REFUSAL TO SERVICE SUCH TELEVISION AND FURTHER DISCLAIM ANY AND ALL LIABILITY, CONSEQUENCES AND DAMAGES THAT MAY ARISE OR RESULT FROM THE USE OF THE TELEVISION IN ANY CRITICAL APPLICATIONS.

General Provisions

If and to the extent that any provision of this limited warranty should generally be found to be unenforceable, the unenforceable provision shall be severed from the warranty and deemed not to form part of the warranty. The remaining provisions of this warranty

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shall be and remain valid and enforceable. If and to the extent that any provision of this limited warranty as it relates to any of the Related Parties is found to be invalid or unenforceable in respect of that party (the "Excluded Party"), the Excluded Party shall be deemed to be severed or excluded from the provision, and the provision shall remain valid, enforceable and applicable in respect of the other or remaining Related Parties.

To the extent permitted by law, this limited warranty shall be governed and construed in accordance with the laws of Ontario.

If there is any inconsistency between this limited warranty, on the one hand, and any statement in the packaging of the Television or in any other document enclosed with, or used in the context of the promotion or sale of, the Television, on the other hand, the provisions of this limited warranty shall prevail.

How to Obtain Warranty Services

If, after following all of the operating instructions in this manual, checked the "Troubleshooting" section, and have visited www.toshiba.ca/support for additional information, you find that service is needed, please contact TCL Customer Support toll free at 1 800 268-3404.

A copy of the GPL source code in this product may be obtained by contacting Toshiba Consumer Solutions at (800)631-3811. There will be a charge to cover the costs of providing the source code.

Note

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